

24-Port 10/100Mbps with 2-Gigabit Web Smart PoE Switch

FGSW-2620PVS/FGSW-2612PVS

User's Manual



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Revision

PLANET 24-Port 10/100Mbps with 2-Gigabit Web Smart PoE Switch User's Manual

FOR MODELS: FGSW-2620PVS / FGSW-2612PVS

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1. INTRODUCTION

1.1 Checklist

Check the contents of your package for following parts:

- FGSW-2620PVS or FGSW-2612PVS x1
- User's manual CD x1
- Quick installation guide x1
- Power cord x 1
- Rubber feet x 4
- Rack mount accessory x 1

If any of these pieces are missing or damaged, please contact your dealer immediately, if possible, retain the carton including the original packing material, and use them against to repack the product in case there is a need to return it to us for repair.

In the following section, the term “**Web Smart PoE Switch**” means the two Switch devices, ie. FGSW-2620PVS and FGSW-2612PVS; term of “**switch**” can be any third switches.

1.2 About the Switch

The Web Smart PoE Switches provides 24 10/100Mbps Fast Ethernet ports and 2 Gigabit TP/SFP combo ports, the two Gigabit ports either can be 1000Base-T for 10/100/1000Mbps or 1000Base-SX/LX through SFP (Small Factor Pluggable) interface. The distance can be extended from 100 meters (TP), 550 meters (Multi-mode fiber), up to above 10/50/70/120 kilometers (Single-mode fiber).

Both Web Smart PoE Switches are equipped with non-blocking 8.8Gbps backplane greatly simplifies the tasks of upgrading your LAN to cater for increased bandwidth demands. The PoE in-line power following the standard IEEE 802.3af, makes the both Web Smart PoE Switches able to power on 12/24 PoE devices at the distance up to 100 meters through the 4-pair Cat 5/5e UTP wire.

For efficient management, the Web Smart PoE Switch is equipped with web interface. The two Web Smart PoE Switches can be programmed for basic switch management functions such as port speed configuration, Port Trunking, Port-based VLAN, Port Mirroring, QoS, bandwidth control, Access Control list and Misc Configuration.

The Web Smart PoE Switch provides port-based VLAN (including overlapping). The VLAN groups allowed on the 2 Web Smart PoE Switches will be maximally up to 26 for port-based VLAN. Via supporting port trunking, the Web Smart PoE Switch allows the operation of a high-speed trunk combining multiple ports. The Web Smart PoE Switch provides seven groups of up to 8-ports for trunking, and it supports fail-over as well.

With its Auto-Negotiation capability, all the RJ-45/STP ports of Web Smart PoE Switch can be configured to speeds of 10/20Mbps or 100/200Mbps automatically. In addition, the product is equipped with the MDI/MDI-X auto detection for easily plug and play connection, regardless of cabling types-straight through or crossover.

1.3 Features

Complies with the IEEE 802.3, IEEE 802.3u, IEEE 802.3z and IEEE 802.3ab Gigabit Ethernet standard

24-Port 10/100Mbps Fast Ethernet Switch

2-Port Gigabit TP/SFP combo ports

12-Port PoE(FGSW-2612PVS) and 24-Port PoE(FGSW-2620PVS)

Each Switching ports support auto-negotiation-10/20, 100/200Mbps supported

Supports IEEE 802.3af 15.4 watts power output on each port

Auto-MDI/MDI-X detection on each RJ-45 port

Prevents packet loss with back pressure (half-duplex) and 802.3x PAUSE frame flow control (full- duplex)

High performance Store and Forward architecture, broadcast storm control, runt/CRC filtering eliminates erroneous packets to optimize the network bandwidth

8K MAC address table, automatic source address learning and ageing

512K Bytes packet buffers

Web interface for Switch basic management and setup

Support up to 26 port-based VLAN groups

Support up to 7 Trunk groups, each trunk for up to maximum 8 port with 800Mbps bandwidth

Port mirroring allows monitoring of the traffic across any port in real time

Support QoS and bandwidth control on each port

Supports Access Control List function

19-inch rack mount size

Internal full-range power supply suitable for worldwide use

EMI standards comply with FCC, CE class A

1.4 Specification

Product	FGSW-2620PVS	FGSW-2612PVS
Hardware Specification		
Ports	24 10/ 100Base-TX RJ-45 Auto-MDI/MDI-X ports	
Module Slots	2 Gigabit TP/SFP combo ports	
PoE ports	24(port 1 to port 24)	12(port 1 to port 12)
Switch Processing Scheme	Store-and-forward	
Throughput (packet per second)	6.547Mpps	
Switch fabric	8.8Gbps	
Address Table	8K entries	
Share data Buffer	512K Bytes	
Flow Control	Back pressure for half duplex, IEEE 802.3x Pause Frame for full duplex	
Dimensions	440 x 265 x 44 mm, 1U height	
Weight	3.87kg	3.51kg
Power Requirement	100~240V AC, 50-60 Hz	
Power Consumption / Dissipation	13.5 Watts maximum / 46 BTU/hr maximum	

PoE power Consumption / Dissipation	260 Watts maximum / 887 BTU/hr maximum	130 Watts maximum / 443 BTU/hr maximum
Temperature	Operating: 0~50 degree C, Storage -40~70 degree C	
Humidity Operating:	10% to 90%, Storage: 5% to 95% (Non-condensing)	
Smart function		
System Configuration	Web interface	
Port Status	Display per port's disable/enable status, per port's link status and speed duplex mode. Also the Flow control status	
Port Configuration	Per port disable/enable, Auto-negotiation disable/enable. 10/100Mbps full and half duplex mode selection. Flow control disable/enable and bandwidth control on each port	
Trunk Configuration	Support 7 groups of 8-Port trunk support	
VLAN Configuration	Maximum up to 26 VLAN groups for port-based VLAN	
Port Monitoring	One Mirroring port to monitor one mirrored port. The monitor modes are RX, TX and RX & TX	
QoS Configuration	IEEE 802.1p QoS on each port	
Port counters	Display detail traffic counters on each port	
Access Control List	Supports up to 16 Access Control list group	
PoE Ports configuration	Per PoE port disable / enable and power feeding priority assign	
PoE Ports Status	Per PoE port status such as Enable or disable, power consumption and current.	
Standards Conformance		
Regulation Compliance	FCC Part 15 Class A, CE	
Standards Compliance	IEEE 802.3 (Ethernet)	
	IEEE 802.3u (Fast Ethernet)	
	IEEE 802.3ab(Gigabit Ethernet)	
	IEEE 802.3z(Gigabit Ethernet)	
	IEEE 802.3af Power over Ethernet	
	IEEE 802.3x (Full-duplex flow control)	
	IEEE 802.1p QoS	

2. HARDWARE DESCRIPTION

This product provides three different running speeds – 10Mbps, 100Mbps and 1000Mbps in the same Web Smart PoE Switch and automatically distinguishes the speed of incoming connection.

This section describes the hardware features of Web Smart PoE Switch. For easier management and control of the Web Smart PoE Switch, familiarize yourself with its display indicators, and ports. Front panel illustrations in this chapter display the unit LED indicators. Before connecting any network device to the Web Smart PoE Switch, read this chapter carefully.

2.1 Front Panel

The Front Panel of the Web Smart PoE Switch consists of 24x Auto-Sensing 10/100Mbps Ethernet RJ-45 Ports, the Web Smart PoE Switch provides 2 Gigabit TP/SFP combo ports either can be 1000Base-T for 10/100/1000Mbps or 1000Base-SX/LX through SFP (Small Factor Pluggable) interface.

The LED Indicators are also located on the front panel of the Web Smart PoE Switch.

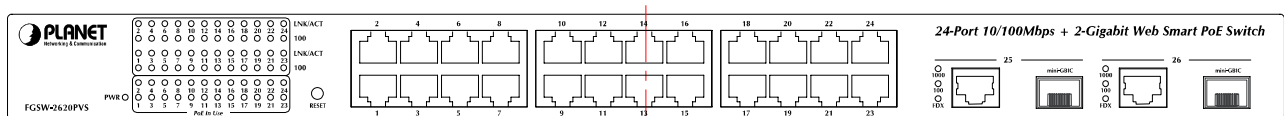


Figure 2-1: FGSW-2620PVS Switch front panel

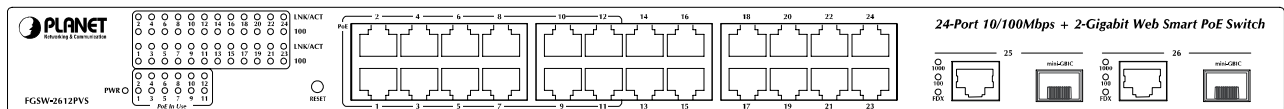


Figure 2-2: FGSW-2612PVS Switch front panel

2.1.1 LED indicators

System

LED	Color	Function
PWR	Green	Lights to indicate that the Switch has power.

Per 10/100Mbps port

LED	Color	Function
LNK/ACT	Green	Lights to indicate the link through that port is successfully established.
100	Orange	Lights to indicate the port is running in 100Mbps speed.

Per PoE port

LED	Color	Function
PoE In-use	Green	Light: indicate the port is providing 15.4 watts power output to remote Powered Device.

Per 10/100/1000Base-T port /SFP interfaces

LED	Color	Function
LNK/ACT 1000	Green	Lit: indicate that the port is operating at 1000Mbps. Off: indicate that the port is operating at 10Mbps or 100Mbps. Blink: indicate that the switch is actively sending or receiving data over that port.
LNK/ACT 100	Green	Lit: indicate that the port is operating at 100Mbps. Off: indicate that the port is operating at 10Mbps or 1000Mbps. Blink: indicate that the switch is actively sending or receiving data over that port.
FDX	Green	Lit: indicate that the port is operating at full-duplex mode. Off: indicate that the port is operating at half-duplex mode.

Notice:

1. Press the RESET button once. The Web Smart PoE Switch will reboot automatically.
2. Press the RESET button for 5 seconds. The Web Smart PoE Switch will back to the factory default mode; the entire configuration will be erased.
3. The 2 Gigabit TP/SFP combo ports are shared with port 25/26 of Web Smart PoE Switch. Either of them can operate at the same time.

2.2 Rear Panel

The rear panel of the Web Smart PoE Switches indicates an AC inlet power socket, which accepts input power from 100 to 240VAC, 50-60Hz.



Figure 2-3: FGSW-2620PVS Switch rear panel



Figure 2-4: FGSW-2612PVS Switch rear panel

Power Notice:

1. The device is a power-required device, it means, it will not work till it is powered. If your networks should active all the time, please consider using UPS (Uninterrupted Power Supply) for your device. It will prevent you from network data loss or network downtime.
2. In some area, installing a surge suppression device may also help to protect your Web Smart PoE Switch from being damaged by unregulated surge or current to the Web Smart PoE Switch.

2.3 Hardware Installation

This part describes how to install your Web Smart PoE Switch and make connections to the Switch. Please read the following topics and perform the procedures in the order being presented. To install your Web Smart PoE Switch on a desktop or shelf, simply completed the following steps.

2.3.1 Desktop Installation

To install Web Smart PoE Switch on a desktop or shelf, simply completed the following steps:

- Step 1: Attached the rubber feet to the recessed areas on the bottom of the Web Smart PoE Switch.
- Step 2: Place the Web Smart PoE Switch on a desktop or shelf near an AC power source.
- Step 3: Keep enough ventilation space between the Web Smart PoE Switch and the surrounding objects.

Notice:

When choosing a location, please keep in mind the environmental restrictions discussed in Chapter 1, Section 4, Specification.

Step 4: Connect your Switch to network devices.

- A. Connect one end of a standard network cable to the 10/100 RJ-45 ports on the front of the Web Smart PoE Switch.
- B. Connect the other end of the cable to the network devices such as printer servers, workstations or routers...etc.

Notice:

Connection to the Web Smart PoE Switch requires UTP Category 5 network cabling with RJ-45 tips. For more information, please see the Cabling Specification in **Appendix A**.

Step 5: Supply power to the Web Smart PoE Switch.

- A. Connect one end of the power cable to the Web Smart PoE Switch.
- B. Connect the power plug of the power cable to a standard wall outlet then power on the Web Smart PoE Switch.

When the Web Smart PoE Switch receives power, the Power LED should remain solid Green.

2.3.2 As a department / workgroup PoE Switch

Providing up to 12 / 24 PoE, in-line power interface, the Web Smart PoE Switch can easily build a power central-controlled IP phone system, IP Camera system, AP group for the enterprise. For instance, 12 / 24 camera / AP can be easily installed around the corner in the company for surveillance demands or build a wireless roaming environment in the office. Without the power-socket limitation, the switch makes the installation of cameras or WLAN AP more easily and efficiently.

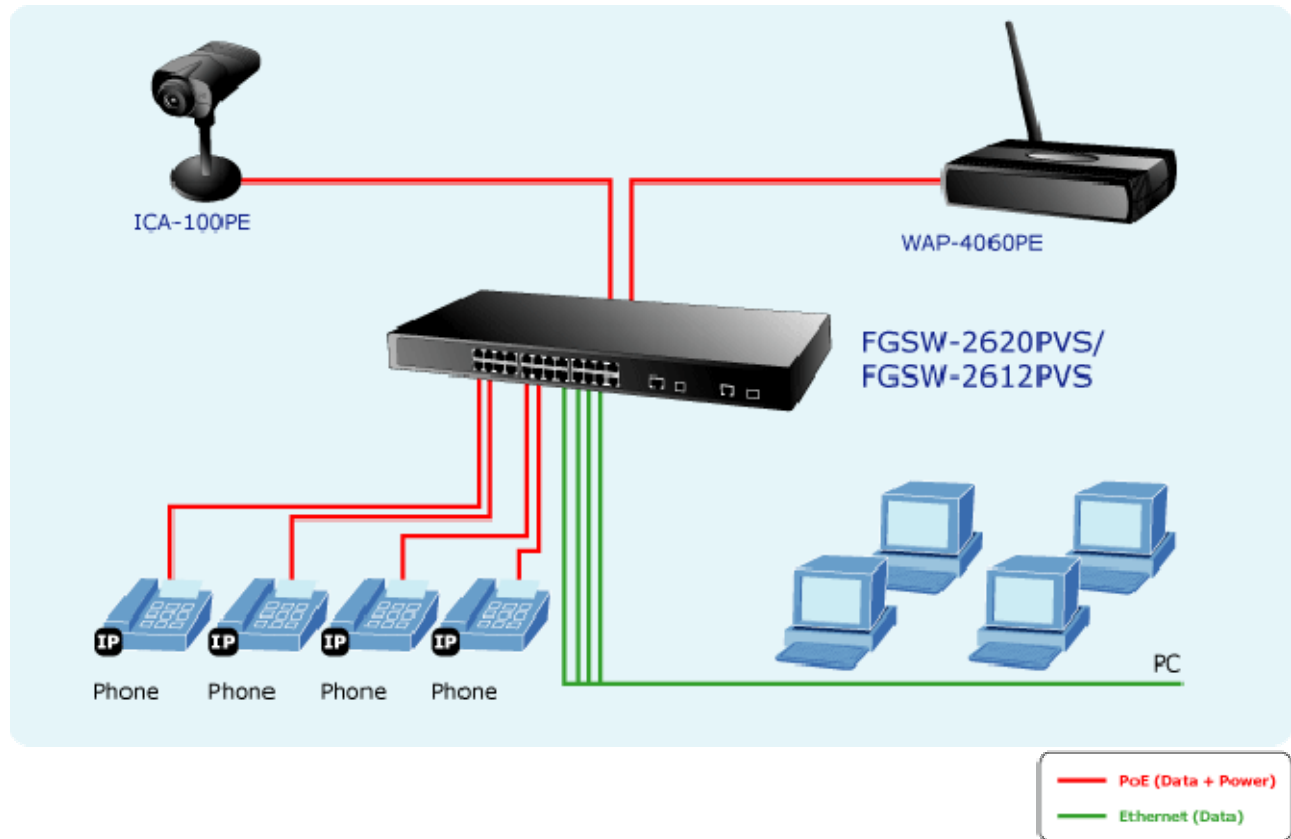


Figure 2-5. PoE Switch connection

2.3.3 Rack Mounting

To install the Web Smart PoE Switch in a **19-inch** standard rack, follow the instructions described below.

Step 1: Place your Web Smart PoE Switch on a hard flat surface, with the front panel positioned towards your front side.

Step 2: Attach a rack-mount bracket to each side of the Web Smart PoE Switch with supplied screws attached to the package. [Figure 2-6](#) shows how to attach brackets to one side of the Web Smart PoE Switch.



Figure 2-6 Attaching the brackets to the Web Smart PoE Switch

Caution:

You must use the screws supplied with the mounting brackets. Damage caused to the parts by using incorrect screws would invalidate your warranty.

Step 3: Secure the brackets tightly.

Step 4: Follow the same steps to attach the second bracket to the opposite side.

Step 5: After the brackets are attached to the Web Smart PoE Switch, use suitable screws to securely attach the brackets to the rack, as shown in [Figure 2-7](#).

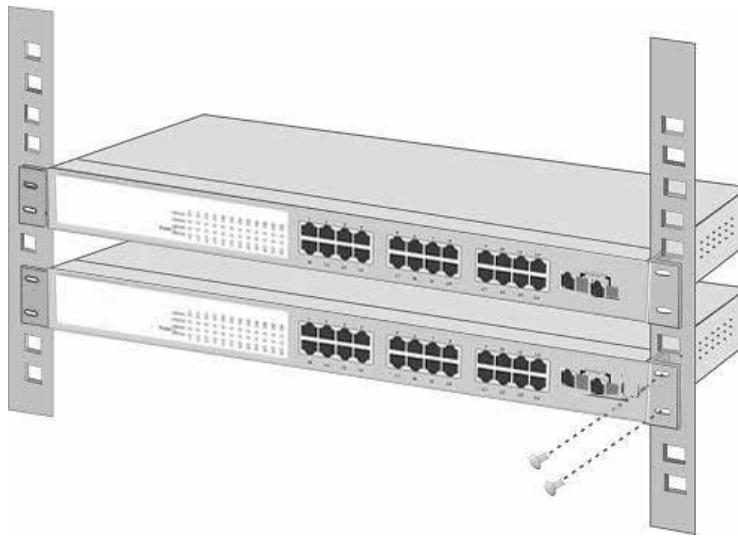


Figure 2-7 Mounting the Web Smart PoE Switch in a Rack

Step 6: Proceed with the steps 4 and steps 5 of section **2.3.1 Desktop Installation** to connect the network cabling and supply power to your Web Smart PoE Switch.

3. SWITCH MANAGEMENT

This chapter describes how to manage the Web Smart PoE Switch. Topics include:

- Overview
- Management method
- Logging on to the Web Smart PoE Switch

3.1 Overview

The Web Smart PoE Switch provides a user-friendly, web interface. Using this interface, you can perform various switch configuration and management activities, including:

Please refer to the following Chapter 4 for the details.

3.2 Management Method

User can manage the Web Smart PoE Switch by Web Management via a network connection.

3.2.1 Web Management

You can manage the Web Smart PoE Switch remotely by having a remote host with web browser, such as Microsoft Internet Explorer or Netscape Navigator.

Using this management method:

The Web Smart PoE Switch must have an Internet Protocol (IP) address accessible for the remote host.

3.3 Logging on to the FGSW-2620PVS / FGSW-2612PVS

When you log on to the Web Smart PoE Switch Web interface for the first time, a sign-on string appears and you are prompted for a Web login username and password.



The factory default login username and password is **admin**.

Notice:

1. For security reason, please change and memorize the new password after this first setup.
2. Only accept command in lowercase letter under Web interface.

4. WEB MANAGEMENT

To modify your PC's IP domain to the same with Web Smart PoE Switch then use the default IP address (**192.168.0.100**) to remote configure Web Smart PoE Switch through the **Web** interface.

Notice:

The following section will base on the web screens of FGSW-2620PVS, for FGSW-2612PVS the display will be the same to FGSW-2620PVS.

4.1 Login in to the Switch

To access the Web-browser interface you must first enter the user name and password, the default user name and password is **"admin"**. You will see the following screen comes out on the Web browser program:



Figure 4-1 Web login screen

After the User name and Password is entered, you will see the web main menu screen.



Figure 4-2 Web main menu screen

4-2 Port Status

This section provides current status of each port from Web Smart PoE Switch, the screen in Figure 4-3 appears and table 4-1 describes the port status objects of Web Smart PoE Switch.

Port	Enable	Link Status	Spd/Dpx	Flow Control	Port	Enable	Link Status	Spd/Dpx	Flow Control
1	Enable	Down	----	----	2	Enable	Down	----	----
3	Enable	Down	----	----	4	Enable	Down	----	----
5	Enable	Down	----	----	6	Enable	Down	----	----
7	Enable	Down	----	----	8	Enable	Down	----	----
9	Enable	Down	----	----	10	Enable	Down	----	----
11	Enable	Down	----	----	12	Enable	Down	----	----
13	Enable	Down	----	----	14	Enable	Down	----	----
15	Enable	Down	----	----	16	Enable	Down	----	----
17	Enable	Down	----	----	18	Enable	Down	----	----
19	Enable	Down	----	----	20	Enable	Down	----	----
21	Enable	Down	----	----	22	Enable	Down	----	----
23	Enable	Down	----	----	24	Enable	Up	100F	Off
MOD1	Enable	Down	----	----	MOD2	Enable	Down	----	----

Figure 4-3 Port Status Web Page screen

Object	Description
Port	Indicate port 1 to port 26.
Enable	Display the port Disable or Enable state of each port on Web Smart PoE Switch.
Link Status	The state of the link, indicating a valid link partner device. " Up " means a device is successful connected to the port. " Down " means no device is connected.
Spd/Dpx	Display the Speed duplex mode of each port on Web Smart PoE Switch.
Flow Control	Display the flow control On or Off state of each port on Web Smart PoE Switch.
Refresh button	Press this button for refresh current status of each port on Web Smart PoE Switch.

Table 4-1 Descriptions of the Port Status screen Objects

4-3 Port Configuration

This section introduces detail settings of per port on Web Smart PoE Switch; the screen in [Figure 4-4 & 4-5](#) appears and table 4-2 describes the Port Configuration objects of Web Smart PoE Switch.

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Networking & Communication

FGSW-2620PVS Ethernet Web Smart POE Switch

- Port Status
- Port Configuration
- Trunk Configuration
- VLAN Configuration
- Port Monitoring
- QoS Configuration
- Port Counters
- Access Control List
- Web Smart Function
- Misc Operation
- POE Configuration

Logout

Port Configuration

Port	Enable	Auto	Spd/Dpx	Flow Control	InRate	OutRate
1	Enable	On	Auto	On	0	0
2	Enable	On	Auto	On	0	0
3	Enable	On	Auto	On	0	0
4	Enable	On	Auto	On	0	0
5	Enable	On	Auto	On	0	0
6	Enable	On	Auto	On	0	0
7	Enable	On	Auto	On	0	0
8	Enable	On	Auto	On	0	0
9	Enable	On	Auto	On	0	0
10	Enable	On	Auto	On	0	0
11	Enable	On	Auto	On	0	0
12	Enable	On	Auto	On	0	0
13	Enable	On	Auto	On	0	0
14	Enable	On	Auto	On	0	0

Figure 4-4 Port Configuration Web Page screen

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FGSW-2620PVS Ethernet Web Smart POE Switch

- Port Status
- Port Configuration
- Trunk Configuration
- VLAN Configuration
- Port Monitoring
- QoS Configuration
- Port Counters
- Access Control List
- Web Smart Function
- Misc Operation
- POE Configuration

Logout

13	Enable	On	Auto	On	0	0
14	Enable	On	Auto	On	0	0
15	Enable	On	Auto	On	0	0
16	Enable	On	Auto	On	0	0
17	Enable	On	Auto	On	0	0
18	Enable	On	Auto	On	0	0
19	Enable	On	Auto	On	0	0
20	Enable	On	Auto	On	0	0
21	Enable	On	Auto	On	0	0
22	Enable	On	Auto	On	0	0
23	Enable	On	Auto	On	0	0
24	Enable	On	Auto	On	0	0
M1-SFP	Enable	On	Auto	On		
M2-SFP	Enable	On	Auto	On		

Apply

* Rate Unit: 1Mbps(0~99, 0: disabled)

Figure 4-5 Port Configuration Web Page screen

Object	Description
Port	Indicate port 1 to port 26.
Enable	Per port Disable or Enable on Web Smart PoE Switch.
Auto	Per port Disable (Off) or enable (On) Auto negotiation on Web Smart PoE Switch.
Spd/Dpx	Adjust per port speed duplex mode on Web Smart PoE Switch; the available options are Auto, 100F, 100H, 10F, 10H. Default mode is Auto.
Flow Control	Per port Flow control Disable (Off) or enable (On) on Web Smart PoE Switch. Default mode is On.
InRate	Input the value of packet rate sent from the connected port to this port must enable the flow control feature of this port for the function to work normally. The available value ranges from 1 to 99 and rate unit: 1Mbps.
OutRate	Input the value of packet rate sent from this port to the connected port. The available value ranges from 1 to 99 and rate unit: 1Mbps.
Apply button	Press this button for save current configuration of each port on Web Smart PoE Switch.

Table 4-2 Descriptions of the Port Configuration screen Objects

4-4 Trunk configuration

This function allows to configuring the trunk function. It provides up to 7 trunk groups and each trunk group provides 2 to 8 member ports. Please check the member port from “Normal” to 7 trunk groups and the screen in [Figure 4-6 & 4-7](#) appears.



The screenshot shows the 'Trunk Configuration' web page for the PLANET FGSW-2620PVS Ethernet Web Smart POE Switch. On the left is a navigation menu with options: Port Status, Port Configuration, Trunk Configuration (highlighted), VLAN Configuration, Port Monitoring, QoS Configuration, Port Counters, Access Control List, Web Smart Function, Misc Operation, and POE Configuration. Below the menu is a 'Logout' button. The main area is titled 'Trunk Configuration' and contains a table with 9 columns: Port / Group, Normal, Group1, Group2, Group3, Group4, Group5, Group6, and Group7. The rows represent ports 1 through 16. Each cell in the table contains a radio button, with the 'Normal' column for each port having a checked radio button.

Port / Group	Normal	Group1	Group2	Group3	Group4	Group5	Group6	Group7
1	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
2	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
3	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
4	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
5	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
6	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
7	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
8	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
9	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
10	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
11	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
12	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
13	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
14	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
15	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
16	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Figure 4-6 Trunk Configuration Web Page screen



The screenshot shows the 'Trunk Configuration' web page for the PLANET FGSW-2620PVS Ethernet Web Smart POE Switch, displaying a larger table. The left navigation menu is identical to Figure 4-6. The table has 9 columns: Port / Group, Normal, Group1, Group2, Group3, Group4, Group5, Group6, and Group7. The rows represent ports 10 through 24, plus MOD1 and MOD2. Each cell contains a radio button, with the 'Normal' column for each port having a checked radio button. An 'Apply' button is located at the bottom right of the table area.

Port / Group	Normal	Group1	Group2	Group3	Group4	Group5	Group6	Group7
10	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
11	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
12	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
13	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
14	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
15	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
16	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
17	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
18	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
19	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
20	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
21	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
22	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
23	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
24	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
MOD1	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
MOD2	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Figure 4-7 Trunk Configuration Web Page screen

After setup completed, please press “**Apply**” button to take effect and the screen in [Figure 4-8](#) appears.

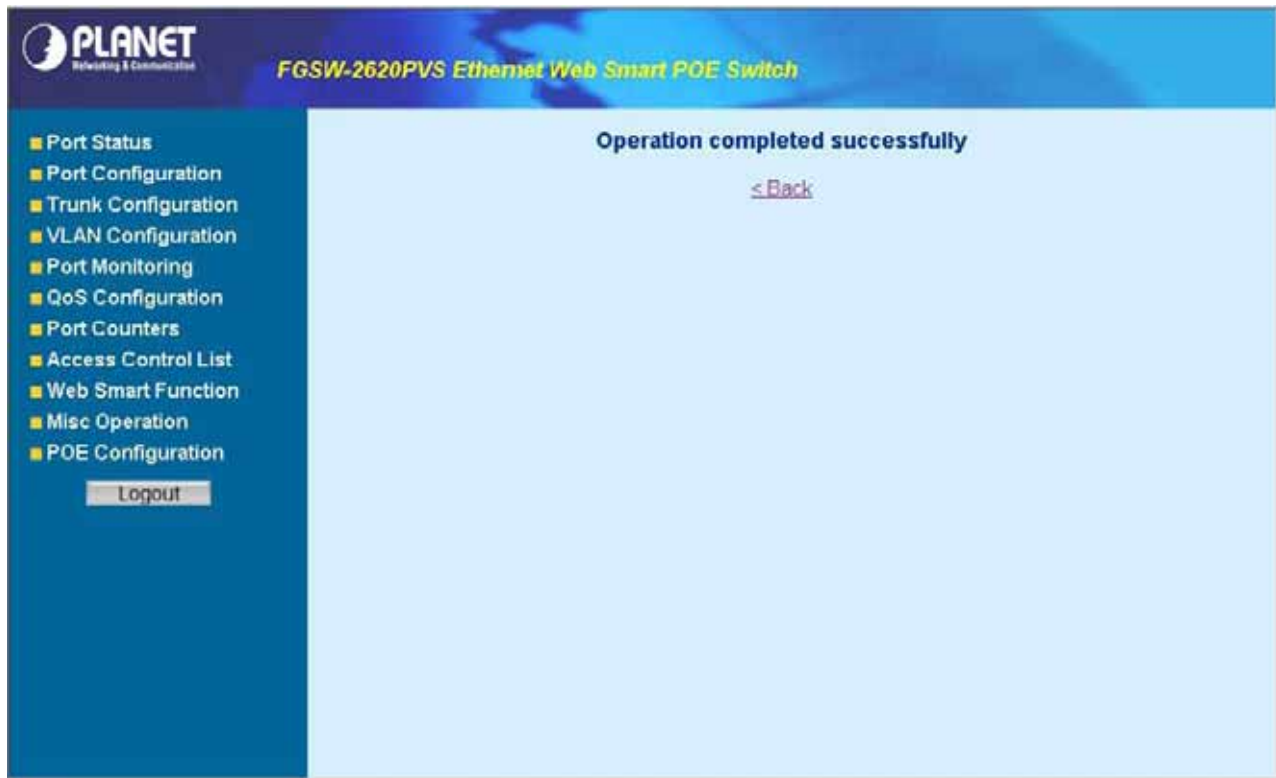


Figure 4-8 Trunk Configuration Web Page screen

Please press “**Back**” for return to Trunk configuration screen for further configuration. If the member port from each trunk group is out of range or less than 2 ports than the following screen appears.

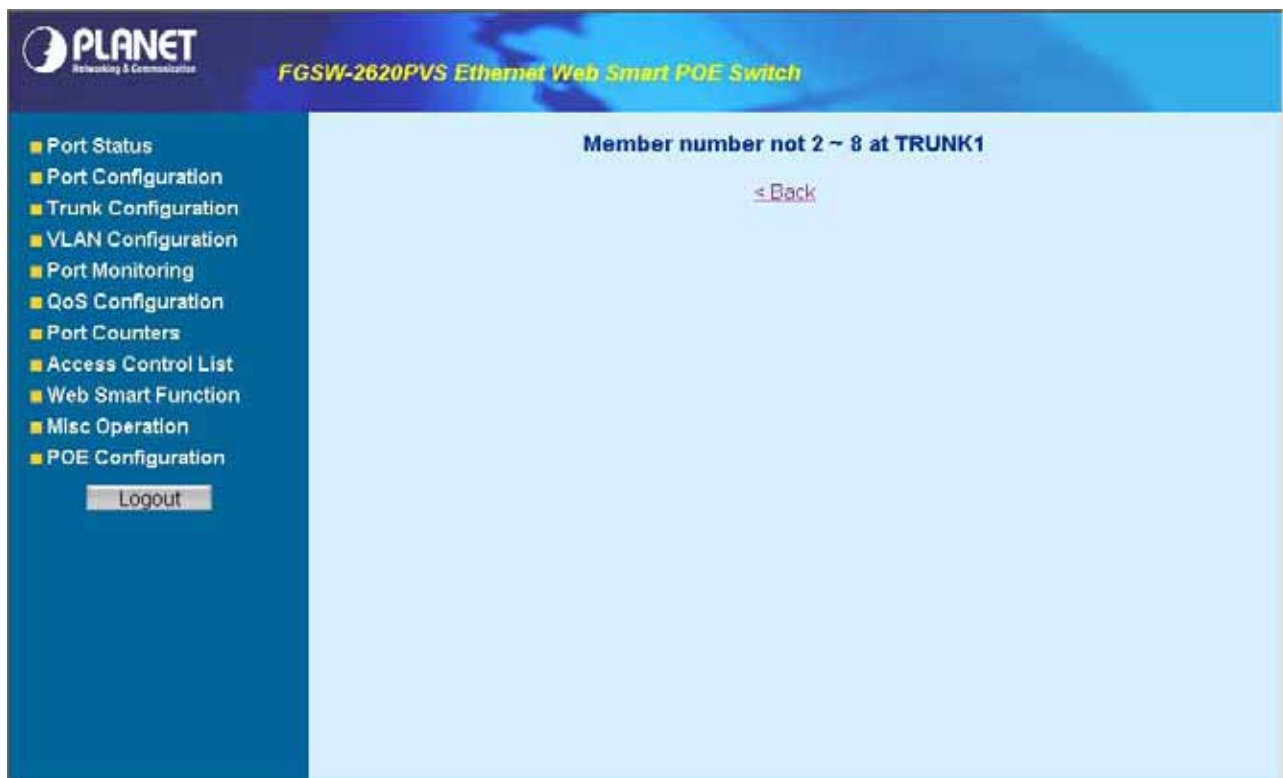


Figure 4-9 Trunk Configuration Web Page screen

Please press “**Back**” for return to Trunk configuration screen for adds other trunk group.

4-5 VLAN configuration

A Virtual LAN (VLAN) is a logical network grouping that limits the broadcast domain. It allows you to isolate network traffic so only members of the VLAN receive traffic from the same VLAN members. The Web Smart PoE Switch supports 26 port-based VLAN groups. In the default configuration with VLAN disable, the screen in [Figure 4-10](#) appears.

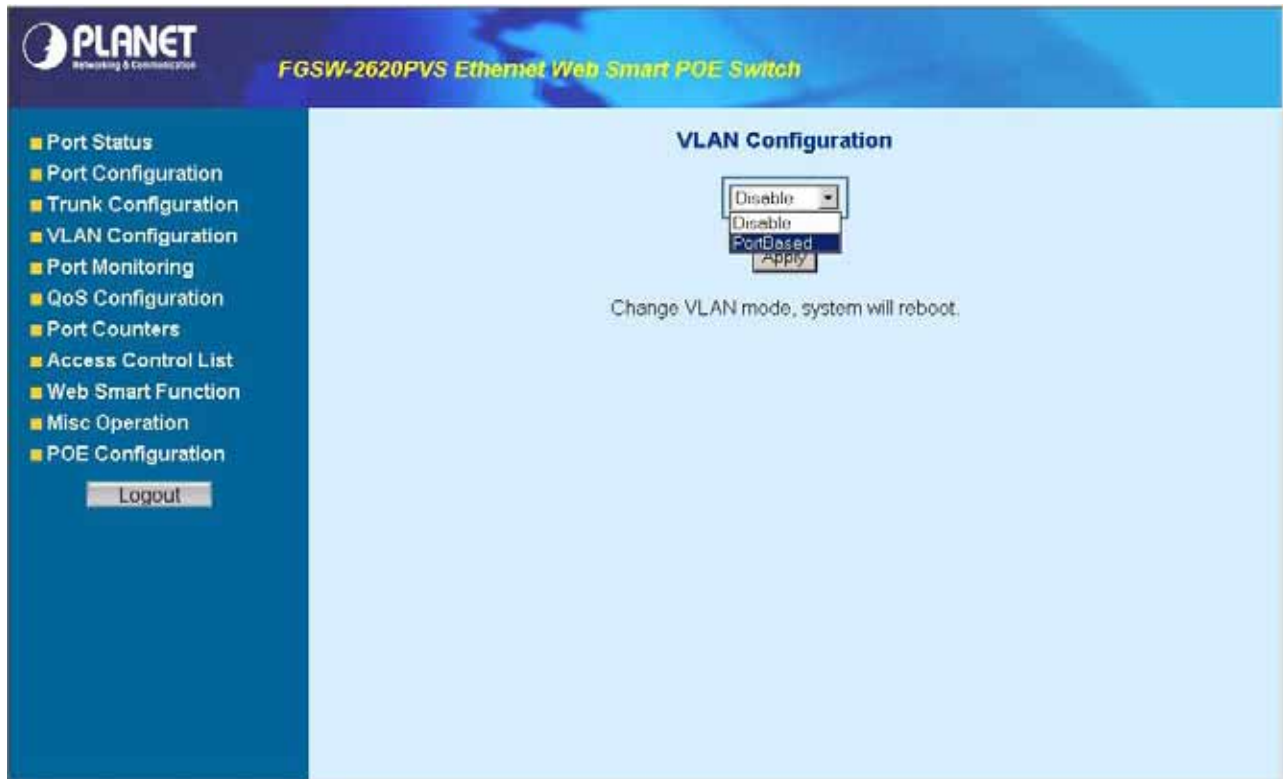


Figure 4-10 Port-based VLAN Setting Web Page screen

4.5.1 Enable port-based VLAN function and add a port-based VLAN group

Select “**PortBased**” and press “**Apply**” button, to enable the port-based VLAN function then the Web Smart PoE Switch will reboot for take affect. The screen in [Figure 4-11](#) appears.



Figure 4-11 Port-based VLAN Setting Web Page screen

Press “**Relogin**” to re-login the Web Smart PoE Switch and the screen in [Figure 4-12](#) appears.

PLANET
Networking & Communication

Welcome to PLANET FGSW-2620PVS Web Management

Username

Password

Login

Figure 4-12 Port-based VLAN Setting Web Page screen

After login web interface of Web Smart PoE Switch and choose VLAN configuration, the screen in [Figure 4-13](#) appears.

PLANET
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FGSW-2620PVS Ethernet Web Smart POE Switch

■ Port Status
■ Port Configuration
■ Trunk Configuration
■ VLAN Configuration
■ Port Monitoring
■ QoS Configuration
■ Port Counters
■ Access Control List
■ Web Smart Function
■ Misc Operation
■ POE Configuration

Logout

VLAN Configuration

VLAN Mode :

VLAN Group List :

Delete AddNew

Figure 4-13 Port-based VLAN Configuration Web Page screen

Press “**AddNew**” button to add a port-based VLAN group and setup procedure is shown as below:

1. Input a VLAN group ID and **available range is 1-4094**.
2. Select specific port as member port and the screen in [Figure 4-14](#) appears.
3. After setup completed, please press “**Apply**” button to take effect and the screen in [Figure 4-15](#) appears.
4. Please press “**Back**” for return to VLAN configuration screen to add other VLAN group, the screen in [Figure 4-16](#) appears.

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FGSW-2620PVS Ethernet Web Smart POE Switch

Add a PortBased VLAN Group

Group ID: (1~4094)

1	<input type="text"/>	2	<input type="text"/>	3	<input type="text"/>
4	<input type="text" value="Member"/>	5	<input type="text"/>	6	<input type="text"/>
7	<input type="text"/>	8	<input type="text"/>	9	<input type="text"/>
10	<input type="text"/>	11	<input type="text"/>	12	<input type="text"/>
13	<input type="text"/>	14	<input type="text"/>	15	<input type="text"/>
16	<input type="text"/>	17	<input type="text"/>	18	<input type="text"/>
19	<input type="text"/>	20	<input type="text"/>	21	<input type="text"/>
22	<input type="text"/>	23	<input type="text"/>	24	<input type="text"/>
MOD1	<input type="text"/>	MOD2	<input type="text"/>		

Figure 4-14 Port-based VLAN Setting Web Page screen

PLANET
Networking & Communication

FGSW-2620PVS Ethernet Web Smart POE Switch

Operation completed successfully

[< Back](#)

Figure 4-15 Port-based VLAN Setting Web Page screen



Figure 4-16 Port-based VLAN Setting Web Page screen

4.5.2 Edit existence port-based VLAN group

Click **existence VLAN group ID** to edit existence port-based VLAN group, the edit procedure is shown as below:

1. Select specific port as member port and the screen in [Figure 4-17](#) appears.
2. After setup completed, please press “**Apply**” button to take effect and the screen in [Figure 4-18](#) appears.
3. Please press “**Back**” for return to VLAN configuration screen to continue VLAN configuration.

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FGSW-2620PVS Ethernet Web Smart POE Switch

Edit a PortBased VLAN Group

Group ID : 1

1	Member	2		3	
4		5		6	
7		8		9	
10		11		12	
13		14		15	
16		17		18	
19		20		21	
22		23		24	
MOD1		MOD2			

[Apply](#)

Figure 4-17 Edit Port-based VLAN Setting Web Page screen

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Networking & Communication

FGSW-2620PVS Ethernet Web Smart POE Switch

Operation completed successfully

[< Back](#)

Port Status
Port Configuration
Trunk Configuration
VLAN Configuration
Port Monitoring
QoS Configuration
Port Counters
Access Control List
Web Smart Function
Misc Operation
POE Configuration

[Logout](#)

Figure 4-18 Edit Port-based VLAN Setting Web Page screen

4.5.3 Delete existence port-based VLAN group

The port-based VLAN group delete procedure is shown as below:

1. Check **existence VLAN group ID** and the screen in [Figure 4-19](#) appears.
2. Press **“Delete”** button to delete existence port-based VLAN group.
3. Then the **“Delete all checked groups”** window appears, please press **“OK”** to continue the delete VLAN group procedure and the screen in [Figure 4-20](#) appears.
4. Please press **“Back”** for return to VLAN configuration screen to continue VLAN configuration. The screen in [Figure 4-21 & 4-22](#) appears.



Figure 4-19 Delete Port-based VLAN group Web Page screen



Figure 4-20 Delete Port-based VLAN group Web Page screen



Figure 4-21 Delete Port-based VLAN group Web Page screen



Figure 4-22 Port-based VLAN group Web Page screen

4.5.4 Disable port-based VLAN function

Select “**Disable**” and pop window appears, press “**OK**” to disable the port-based VLAN function then the Web Smart PoE Switch will reboot for take affect. The screen in [Figure 4-23 to 4-27](#) appears.



Figure 4-23 Disable Port-based VLAN function Web Page screen

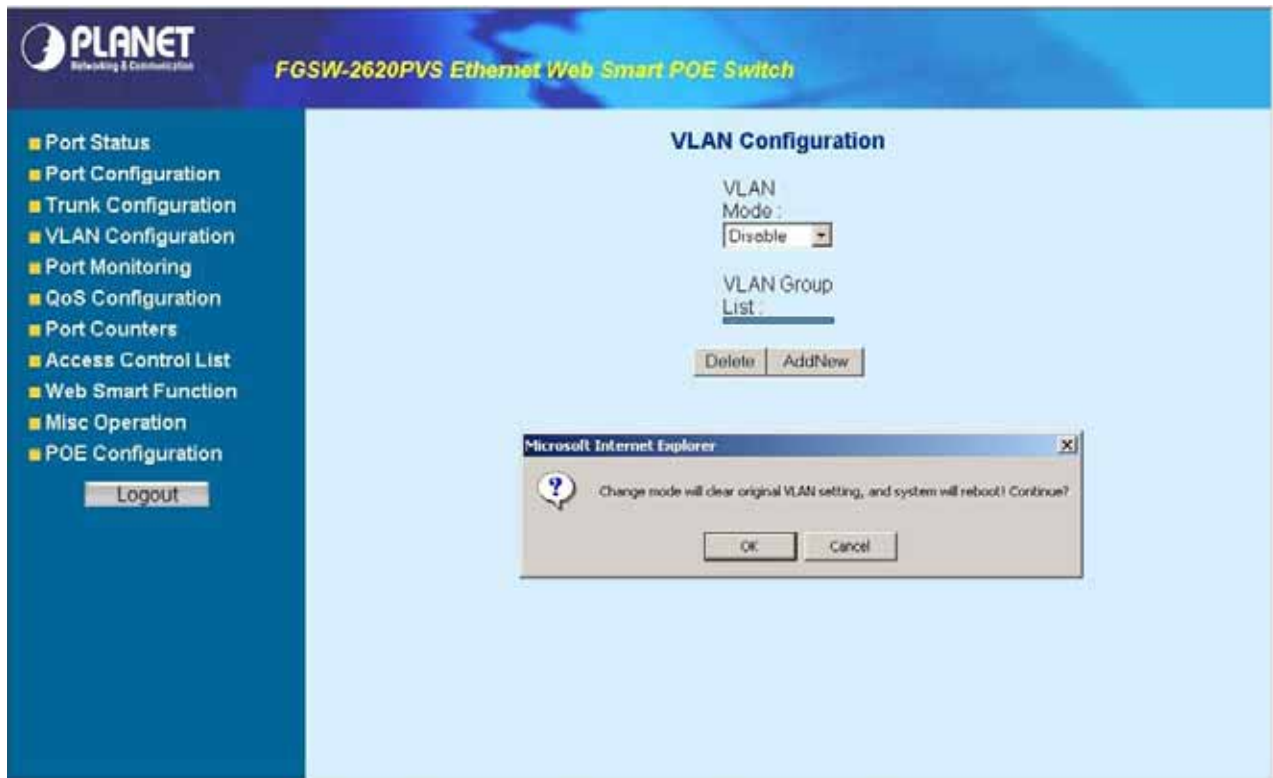


Figure 4-24 Disable Port-based VLAN function Web Page screen



Figure 4-25 Disable Port-based VLAN function Web Page screen



Figure 4-26 Disable Port-based VLAN function Web Page screen

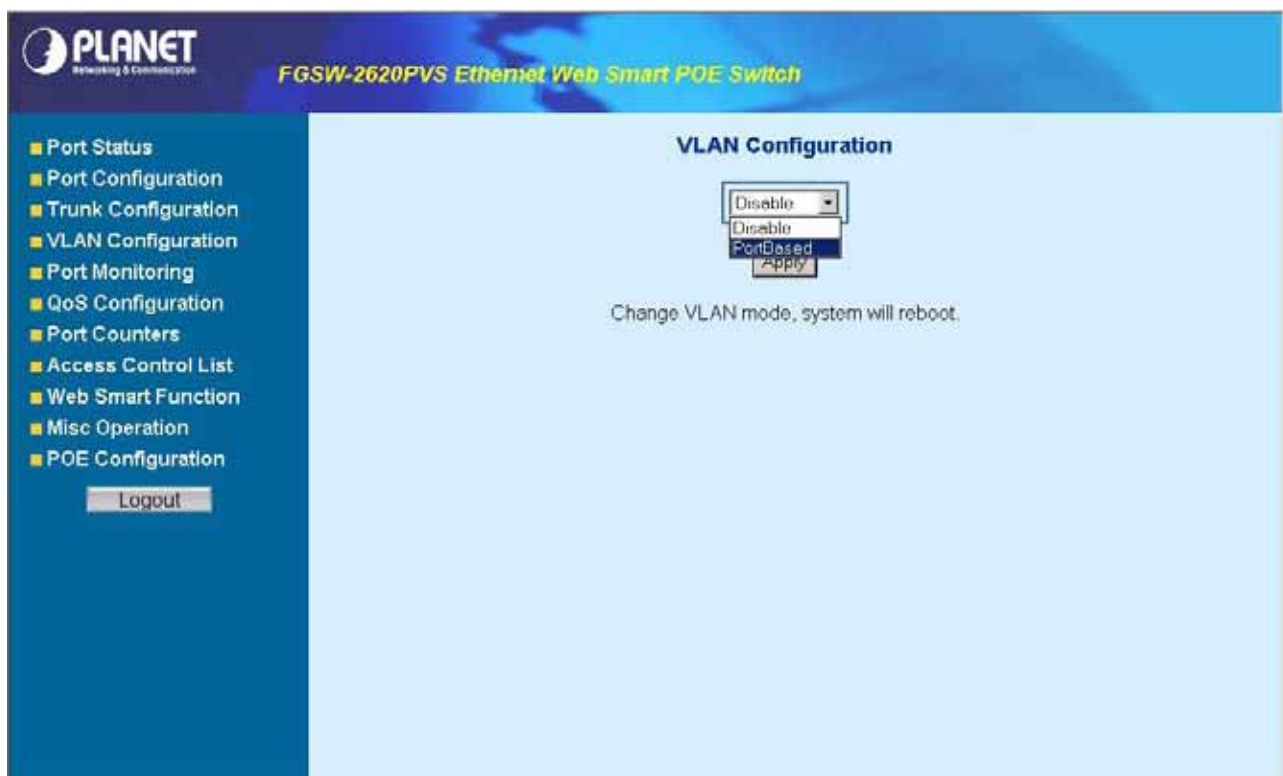


Figure 4-27 Disable Port-based VLAN function Web Page screen

4-6 Port Monitoring

This function provide to monitoring network traffic that forwards a copy of each incoming or outgoing packet from one port of a network Switch to another port where the packet can be studied. It enables the manager to keep close track of switch performance and alter it if necessary. The screen in [Figure 4-28](#) appears and table 4-3 describes the port Monitoring objects of Web Smart PoE Switch.



Figure 4-28 Port Monitoring Web Page screen

Object	Description
Port Monitoring Mode	Provide Disable , RX , TX and RX & TX different modes for port Monitoring function. Default mode is Disable .
Monitoring Port	The monitoring port can be used to see all monitor port traffic. It can connect monitoring port to LAN analyzer or Netxray.
Monitored Port	The monitored port that want to monitor. All monitor port traffic will be copied to mirror port. It can select 1 monitored port in the Web Smart PoE Switch.
Apply button	Press this button for save current port monitoring configuration on Web Smart PoE Switch.

Table 4-3 Descriptions of the Port Monitoring screen Objects

4-7 QoS Configuration

This function provides QoS Configuration of Web Smart PoE Switch, the screen in [Figure 4-29](#) appears and table 4-4 describes the QoS Configuration objects of Web Smart PoE Switch.

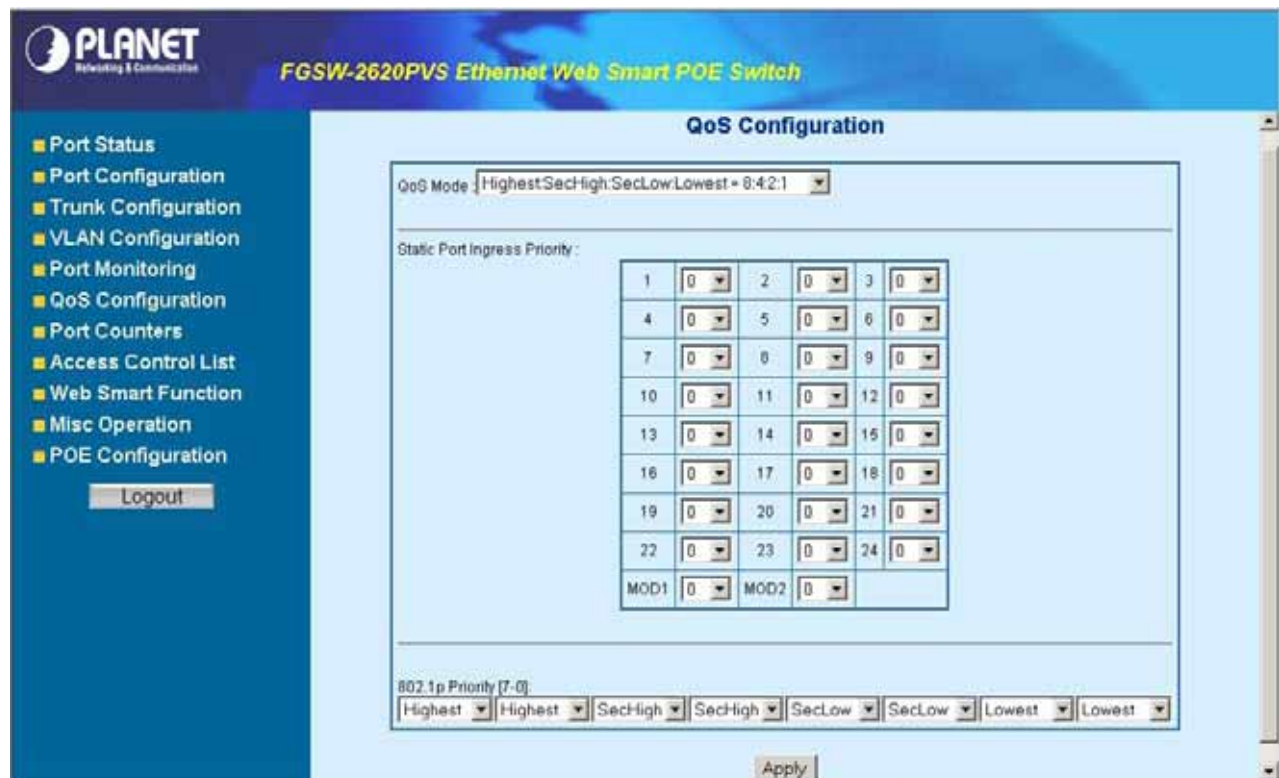


Figure 4-29 QoS Configuration Web Page screen

Object	Description
QoS Mode	Provide different modes for QoS Configuration, the available options are shown as below: Disable QoS Priority, High Empty Then Low, Highest:secHigh:SecLow:Lowest=8:4:2:1 Highest:secHigh:SecLow:Lowest=15:7:3:1 Highest:secHigh:SecLow:Lowest=15:10:5:1 Default mode is Highest:secHigh:SecLow:Lowest=8:4:2:1 , the screen in Figure 4-30 appears.
Static Port Ingress Priority	Allow to assign Ingress priority on each port of Web Smart PoE Switch, the available options are OFF and 0-7 . Default mode is 0 and the screen in Figure 4-31 appears.
802.1p Priority [7-0]	Allow assign high and low on each priority, the available options are shown as below: Lowest, SecLow, SecHigh, Highest , the screen in Figure 4-32 appears.
Apply button	Press this button for save current QoS configuration of each port on Web Smart PoE Switch.

Table 4-4 Descriptions of the QoS Configuration screen Objects

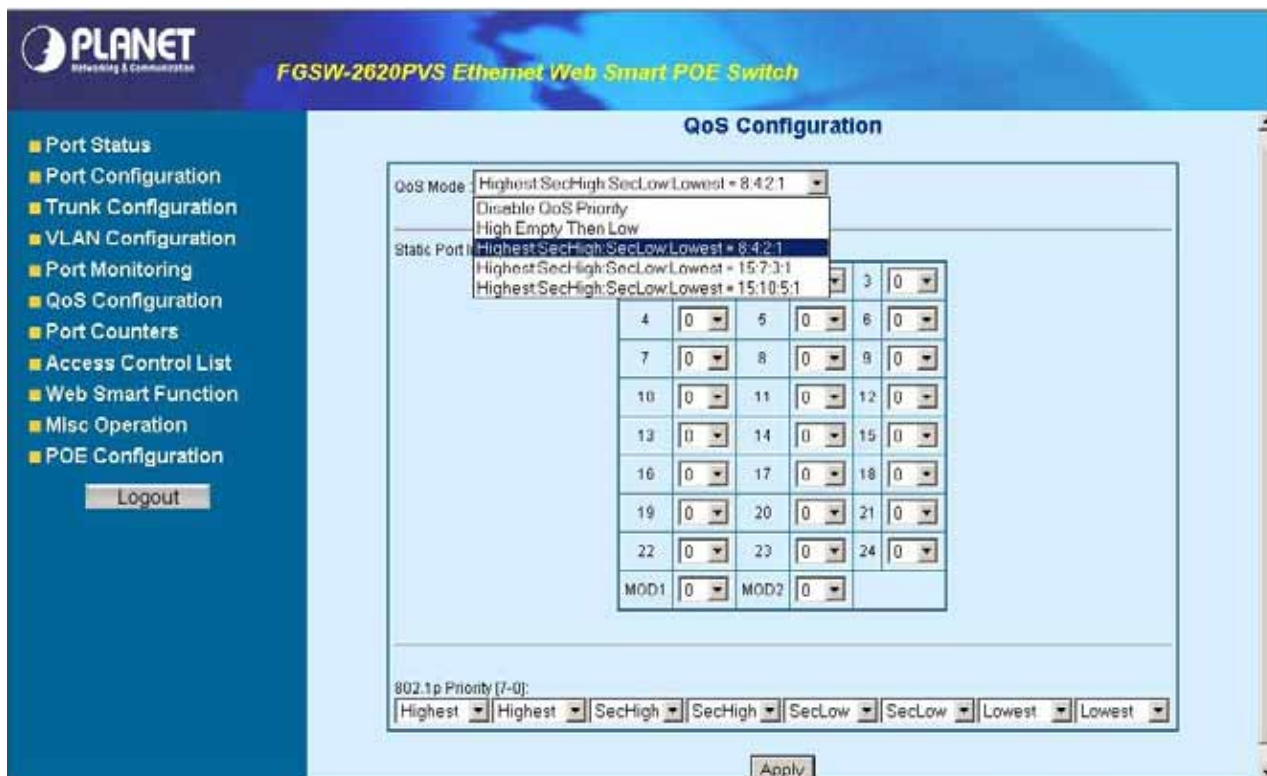


Figure 4-30 QoS Configuration Web Page screen

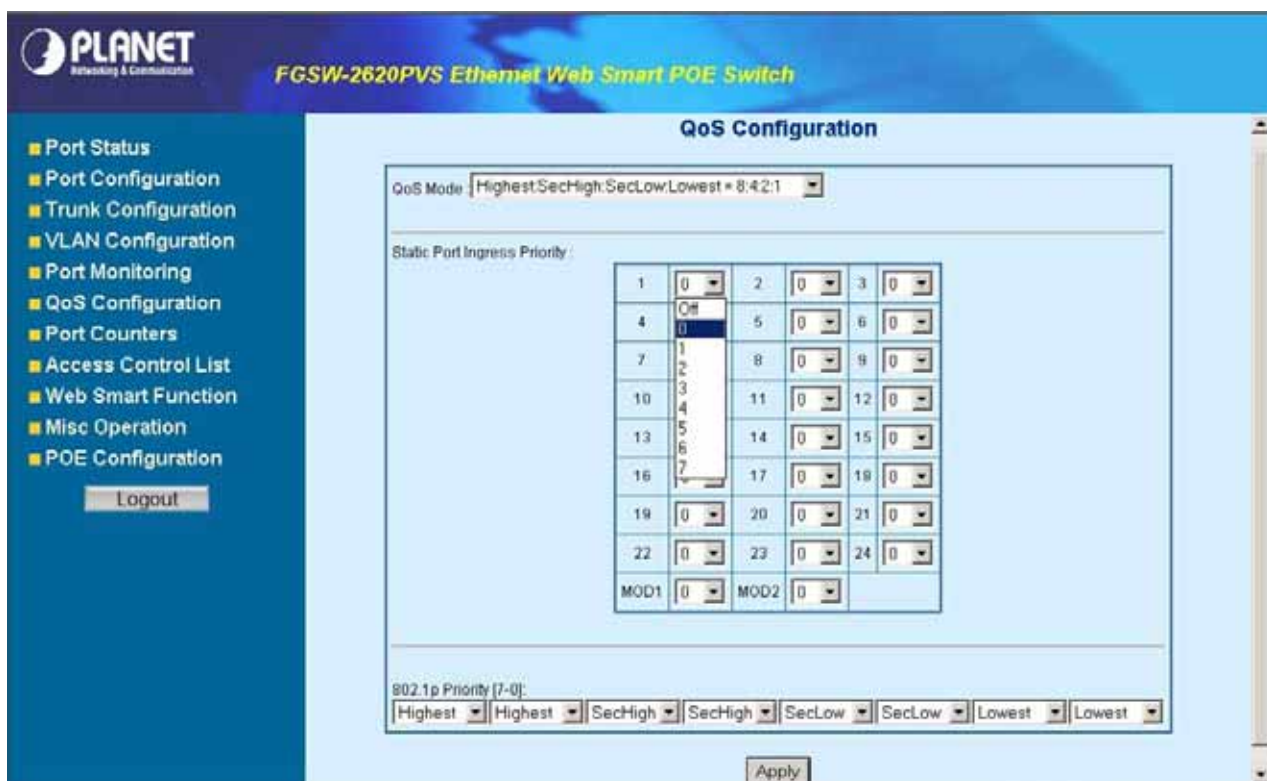


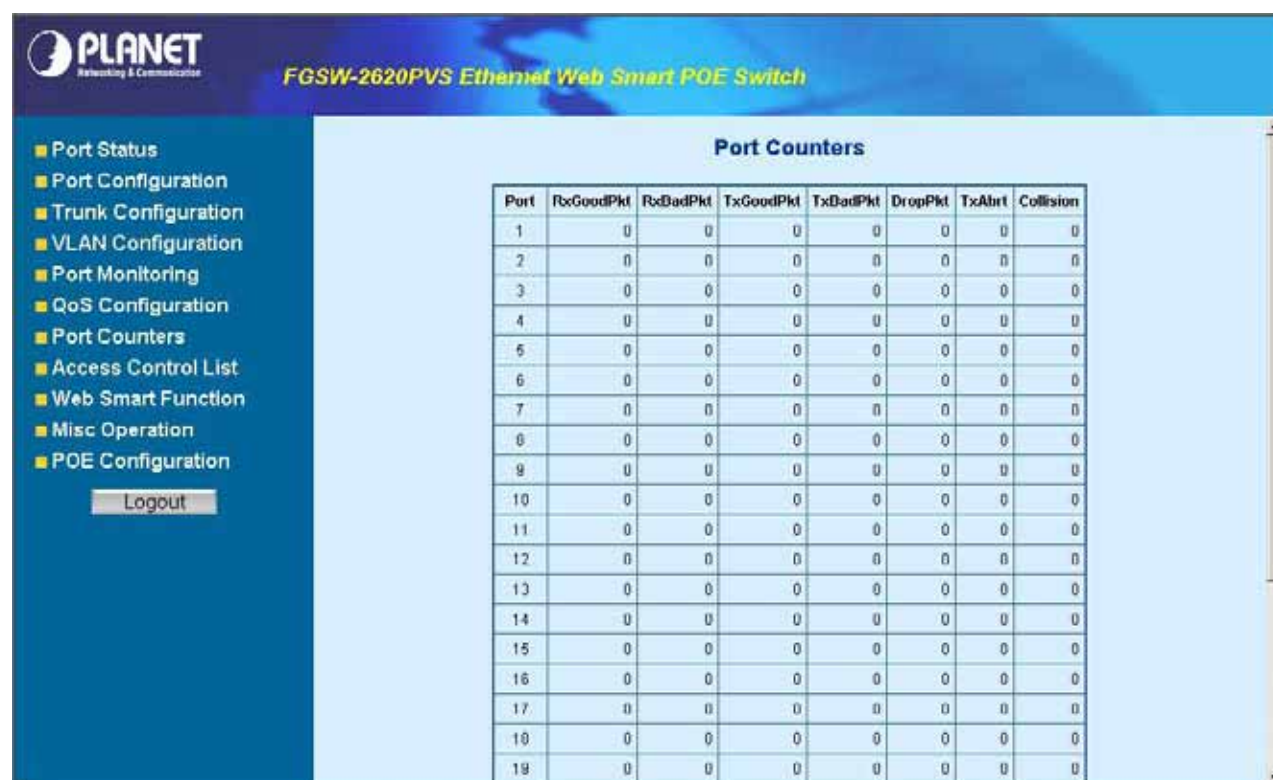
Figure 4-31 QoS Configuration Web Page screen



Figure 4-32 QoS Configuration Web Page screen

4-8 Port counters

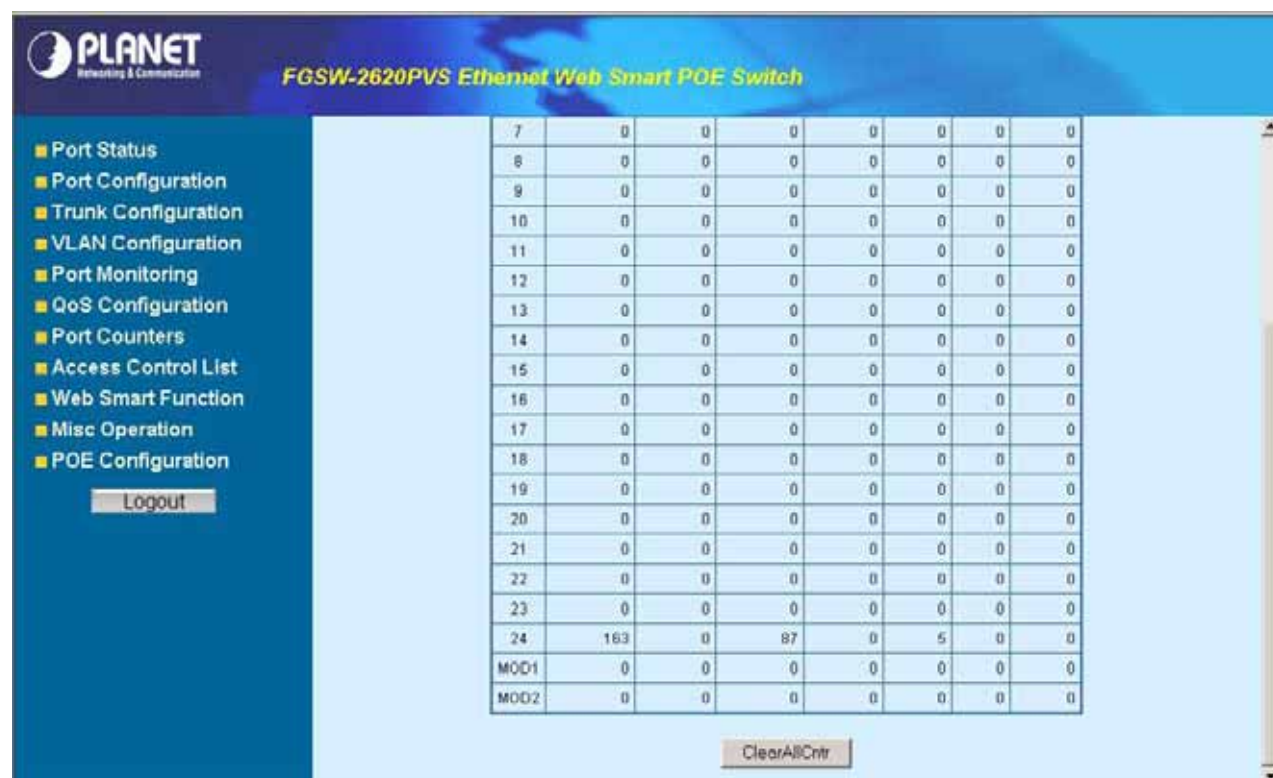
This function could provide you with an individual statistical counter; it is a useful page for administrator to monitor each port's usage condition. Also, it is helpful to troubleshooting network problems. The screen in [Figure 4-33](#) & [4-34](#) appears.



Port Counters

Port	RxGoodPkt	RxBadPkt	TxGoodPkt	TxBadPkt	DropPkt	TxAbnt	Collision
1	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0

Figure 4-33 Port Counters Web Page screen



Port Counters

Port	RxGoodPkt	RxBadPkt	TxGoodPkt	TxBadPkt	DropPkt	TxAbnt	Collision
7	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0
24	163	0	87	0	5	0	0
MOD1	0	0	0	0	0	0	0
MOD2	0	0	0	0	0	0	0

ClearAllCntr

Figure 4-34 Port Counters Web Page screen

Press “**ClearAllCntr**” button to refresh current per port counters on Web Smart PoE Switch.


4-9 Access Control List

The **Access Control List (ACL)** is a concept in [computer security](#) used to enforce [privilege separation](#). It is a means of determining the appropriate [access rights](#) to a given object depending on certain aspects of the [process](#) that is making the request, principally the process's [user](#) identifier. **Access Control List (ACL)** is a mechanism that implements access control for a system resource by listing the identities of the system entities that are permitted or denied to access the resource. The screen in following screen appears; table 4-5 describes the Access Control List objects of Web Smart PoE Switch.

Figure 4-35 Access Control List (ACL) Web Page screen

Object	Description
Group id	Input a group ID and available range is 1-255 .
Action	To assign “ Permit ” or “ Deny ” for Access Control List, the screen in Figure 4-36 appears.
VLAN	To choose VLAN type as “ Any ” or by “ VID (1-4094) ”, the screen in Figure 4-37 appears.
Packet Type	To choose Packet type as “ IPv4 ” or by “ Non-IPv4 ”, the screen in Figure 4-37 appears.
IP Fragment	To decide to “ check ” or “ Uncheck ” the IP fragment, the screen in Figure 4-38 appears.
L4 Protocol	Provide additional L4 protocol for security on Layer 4 level, the screen in Figure 4-39 & 4-40 & 4-41 appears.
Current List	Display “ IPv4 ” or “ Non-IPv4 ” ACL groups, maximum up to 16 groups and the screen in Figure 4-43 appears.
Add button	Press this button for add Access Control List group on Web Smart PoE Switch, the screen in Figure 4-42 & 4-43 appears.
Del button	Press this button for delete Access Control List group on Web Smart PoE Switch, the screen in Figure 4-44 to 4-49 appears.

Table 4-5 Descriptions of the Access Control List (ACL) screen Objects


PLANET
Networking & Communication

FGSW-2620PVS Ethernet Web Smart POE Switch

- Port Status
- Port Configuration
- Trunk Configuration
- VLAN Configuration
- Port Monitoring
- QoS Configuration
- Port Counters
- Access Control List
- Web Smart Function
- Misc Operation
- POE Configuration

Logout

Access Control List

Group Id	<input type="text" value=""/> (1~255)		
Action	Permit		
VLAN	<input type="radio"/> Permit <input type="radio"/> Deny ID <input type="text" value="1"/> (1~4094)		
Packet Type	<input checked="" type="radio"/> IPv4 <input type="radio"/> Non-IPv4		
Src IP Address	<input checked="" type="radio"/> Any <input type="radio"/> IP <input type="text" value="0.0.0.0"/> Mask <input type="text" value="255.255.255.255"/>	Ether Type	<input type="text" value="Any"/> Type#(0x) <input type="text" value=""/>
Dst IP Address	<input checked="" type="radio"/> Any <input type="radio"/> IP <input type="text" value="0.0.0.0"/> Mask <input type="text" value="255.255.255.255"/>		
IP Fragment	Uncheck		
L4 Protocol	<input checked="" type="radio"/> Any <input type="radio"/> Protocol# <input type="text" value=""/> <input type="radio"/> TCP <input type="radio"/> Any <input type="text" value=""/> Port# <input type="text" value=""/> <input type="radio"/> UDP <input type="radio"/> Any <input type="text" value=""/> Port# <input type="text" value=""/>		
	IPv4	Group	Action
		VID	SrcIP/Mask
		DstIP/Mask	L4 Protocol
		IP Fragment	

Figure 4-36 Access Control List (ACL) Web Page screen


PLANET
Networking & Communication

FGSW-2620PVS Ethernet Web Smart POE Switch


- Port Status
- Port Configuration
- Trunk Configuration
- VLAN Configuration
- Port Monitoring
- QoS Configuration
- Port Counters
- Access Control List
- Web Smart Function
- Misc Operation
- POE Configuration

Logout

Access Control List

Group Id	<input type="text" value=""/> (1~255)		
Action	Permit		
VLAN	<input checked="" type="radio"/> Any <input type="radio"/> VID <input type="text" value="1"/> (1~4094)		
Packet Type	<input checked="" type="radio"/> IPv4 <input type="radio"/> Non-IPv4		
Src IP Address	<input checked="" type="radio"/> Any <input type="radio"/> IP <input type="text" value="0.0.0.0"/> Mask <input type="text" value="255.255.255.255"/>	Ether Type	<input type="text" value="Any"/> Type#(0x) <input type="text" value=""/>
Dst IP Address	<input checked="" type="radio"/> Any <input type="radio"/> IP <input type="text" value="0.0.0.0"/> Mask <input type="text" value="255.255.255.255"/>		
IP Fragment	Uncheck		
L4 Protocol	<input checked="" type="radio"/> Any <input type="radio"/> Protocol# <input type="text" value=""/> <input type="radio"/> TCP <input type="radio"/> Any <input type="text" value=""/> Port# <input type="text" value=""/> <input type="radio"/> UDP <input type="radio"/> Any <input type="text" value=""/> Port# <input type="text" value=""/>		
	IPv4	Group	Action
		VID	SrcIP/Mask
		DstIP/Mask	L4 Protocol
		IP Fragment	

Figure 4-37 Access Control List (ACL) Web Page screen


FGSW-2620PVS Ethernet Web Smart POE Switch

- Port Status
- Port Configuration
- Trunk Configuration
- VLAN Configuration
- Port Monitoring
- QoS Configuration
- Port Counters
- Access Control List
- Web Smart Function
- Misc Operation
- POE Configuration

Logout

Src IP Address

IP 0.0.0.0
Mask 255.255.255.255

Dst IP Address

☒ Any ☐ IP 0.0.0.0
Mask 255.255.255.255

IP Fragment

☐ Uncheck
☐ Check

L4 Protocol

☐ TCP Any Port#
☐ UDP Any Port#

Ether Type

Type#(0x)


IPv4	Group	Action	VID	SrcIP/Mask	DstIP/Mask	L4 Protocol	IP Fragment
non-IPv4	Group	Action	VID	Eth Type			

Current List

Add

Del

Figure 4-38 Access Control List (ACL) Web Page screen


FGSW-2620PVS Ethernet Web Smart POE Switch

- Port Status
- Port Configuration
- Trunk Configuration
- VLAN Configuration
- Port Monitoring
- QoS Configuration
- Port Counters
- Access Control List
- Web Smart Function
- Misc Operation
- POE Configuration

Logout

Src IP Address

IP 0.0.0.0
Mask 255.255.255.255

Dst IP Address

☒ Any ☐ IP 0.0.0.0
Mask 255.255.255.255

IP Fragment

☐ Uncheck

L4 Protocol

☒ Any Protocol#
☐ ICMP(1) Port#
☐ IGMP(2) Port#
☐ UDP Any Port#

Ether Type

Type#(0x)


IPv4	Group	Action	VID	SrcIP/Mask	DstIP/Mask	L4 Protocol	IP Fragment
non-IPv4	Group	Action	VID	Eth Type			

Current List

Add

Del

Figure 4-39 Access Control List (ACL) Web Page screen


FGSW-2620PVS Ethernet Web Smart POE Switch

- Port Status
- Port Configuration
- Trunk Configuration
- VLAN Configuration
- Port Monitoring
- QoS Configuration
- Port Counters
- Access Control List
- Web Smart Function
- Misc Operation
- POE Configuration

Logout

Src IP Address

☐ Any ☐ IP 0.0.0.0
Mask 255.255.255.255

Dst IP Address

☒ Any ☐ IP 0.0.0.0
Mask 255.255.255.255

IP Fragment

Uncheck

L4 Protocol

☒ Any Protocol#
☐ TCP Any Port#
☐ UDP Any Port#
☐ FTP(21) Port#
☐ HTTP(80) Port#

Ether Type

Any Type#(00)


IPv4	Group	Action	VID	SrcIP/Mask	DstIP/Mask	L4 Protocol	IP Fragment
non-IPv4	Group	Action	VID	Eth Type			

Current List

Add

Del

Figure 4-40 Access Control List (ACL) Web Page screen


FGSW-2620PVS Ethernet Web Smart POE Switch

- Port Status
- Port Configuration
- Trunk Configuration
- VLAN Configuration
- Port Monitoring
- QoS Configuration
- Port Counters
- Access Control List
- Web Smart Function
- Misc Operation
- POE Configuration

Logout

Src IP Address

☐ Any ☐ IP 0.0.0.0
Mask 255.255.255.255

Dst IP Address

☒ Any ☐ IP 0.0.0.0
Mask 255.255.255.255

IP Fragment

Uncheck

L4 Protocol

☒ Any Protocol#
☐ TCP Any Port#
☐ UDP Any Port#
☐ FTP(21) Port#
☐ HTTP(80) Port#

Ether Type

Any Type#(00)

IPv4	Group	Action	VID	SrcIP/Mask	DstIP/Mask	L4 Protocol	IP Fragment
non-IPv4	Group	Action	VID	Eth Type			

Current List

Add

Del

Figure 4-41 Access Control List (ACL) Web Page screen



Figure 4-42 Access Control List (ACL) Web Page screen

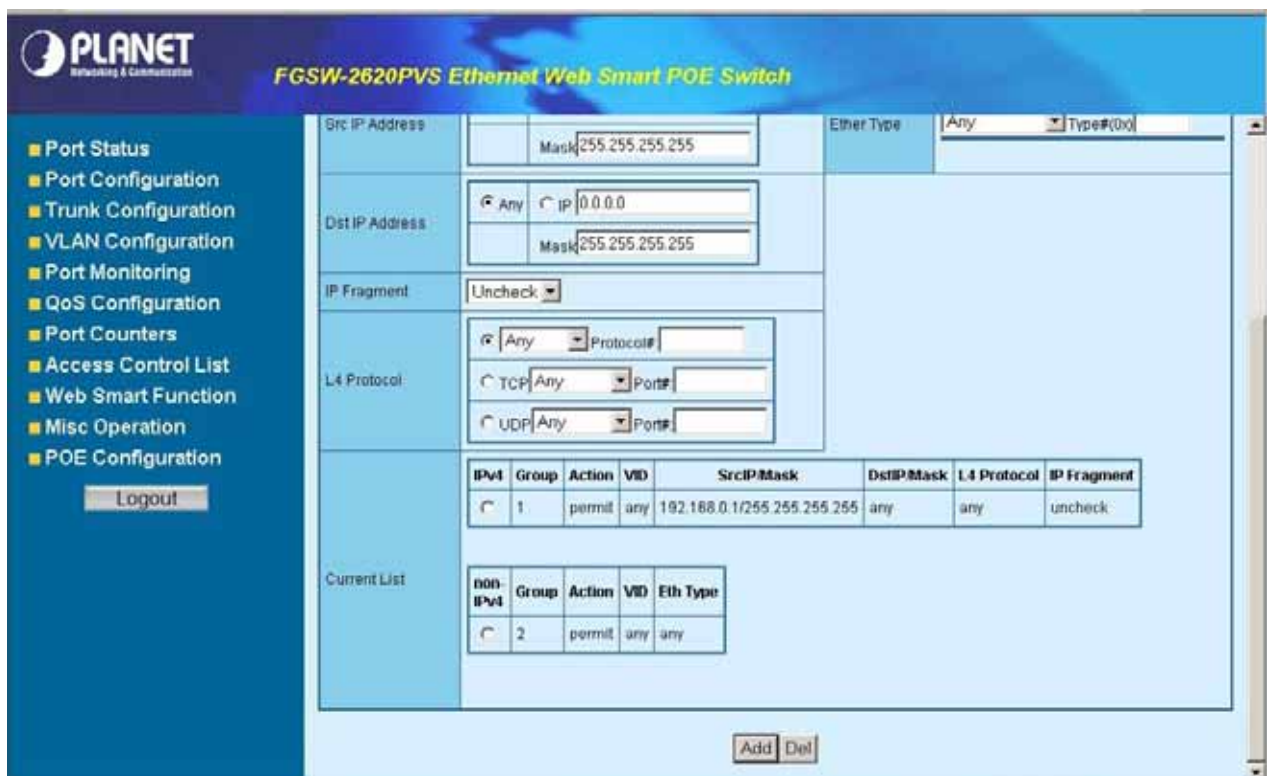


Figure 4-43 Access Control List (ACL) Web Page screen

FGSW-2620PVS Ethernet Web Smart POE Switch

- Port Status
- Port Configuration
- Trunk Configuration
- VLAN Configuration
- Port Monitoring
- QoS Configuration
- Port Counters
- Access Control List
- Web Smart Function
- Misc Operation
- POE Configuration

Logout

Src IP Address	Mask 255.255.255.255	Ether Type	Any Type#(0x)
Dist IP Address	Any IP 0.0.0.0 Mask 255.255.255.255		
IP Fragment	Uncheck		
L4 Protocol	Any Protocol# TCP Any Port# UDP Any Port#		

Microsoft Internet Explorer
Delete the selected group?
OK Cancel

IPv4	Group	Action	VID	SrcIP/Mask	DstIP/Mask	L4 Protocol	IP Fragment
<input checked="" type="radio"/>	1	permit	any	192.168.0.1/255.255.255.255	any	any	uncheck

Current List

non-IPv4	Group	Action	VID	Eth Type
<input checked="" type="radio"/>	2	permit	any	any

Add Del

Figure 4-44 Access Control List (ACL) Web Page screen

FGSW-2620PVS Ethernet Web Smart POE Switch


- Port Status
- Port Configuration
- Trunk Configuration
- VLAN Configuration
- Port Monitoring
- QoS Configuration
- Port Counters
- Access Control List
- Web Smart Function
- Misc Operation
- POE Configuration

Logout

Operation completed successfully

[< Back](#)

Figure 4-45 Access Control List (ACL) Web Page screen



FGSW-2620PVS Ethernet Web Smart POE Switch


- Port Status
- Port Configuration
- Trunk Configuration
- VLAN Configuration
- Port Monitoring
- QoS Configuration
- Port Counters
- Access Control List
- Web Smart Function
- Misc Operation
- POE Configuration

Logout

Src IP Address	Mask 255.255.255.255	Ether Type	Any Type#(0x)																								
Dist IP Address	Any IP 0.0.0.0 Mask 255.255.255.255																										
IP Fragment	Uncheck																										
L4 Protocol	<input checked="" type="radio"/> Any Protocol# <input type="radio"/> TCP Any Port# <input type="radio"/> UDP Any Port#																										
Current List	<table border="1"> <thead> <tr> <th>IPv4</th> <th>Group</th> <th>Action</th> <th>VID</th> <th>SrcIP/Mask</th> <th>DstIP/Mask</th> <th>L4 Protocol</th> <th>IP Fragment</th> </tr> </thead> <tbody> <tr> <td>non-IPv4</td> <td>Group</td> <td>Action</td> <td>VID</td> <td>Eth Type</td> <td colspan="3"></td> </tr> <tr> <td><input checked="" type="radio"/></td> <td>2</td> <td>permit</td> <td>any</td> <td>any</td> <td colspan="3"></td> </tr> </tbody> </table>			IPv4	Group	Action	VID	SrcIP/Mask	DstIP/Mask	L4 Protocol	IP Fragment	non-IPv4	Group	Action	VID	Eth Type				<input checked="" type="radio"/>	2	permit	any	any			
IPv4	Group	Action	VID	SrcIP/Mask	DstIP/Mask	L4 Protocol	IP Fragment																				
non-IPv4	Group	Action	VID	Eth Type																							
<input checked="" type="radio"/>	2	permit	any	any																							

Add Del

Figure 4-46 Access Control List (ACL) Web Page screen



FGSW-2620PVS Ethernet Web Smart POE Switch

- Port Status
- Port Configuration
- Trunk Configuration
- VLAN Configuration
- Port Monitoring
- QoS Configuration
- Port Counters
- Access Control List
- Web Smart Function
- Misc Operation
- POE Configuration

Logout

Src IP Address	Mask 255.255.255.255	Ether Type	Any Type#(0x)																								
Dist IP Address	Any IP 0.0.0.0 Mask 255.255.255.255																										
IP Fragment	Uncheck																										
L4 Protocol	<input checked="" type="radio"/> Any Protocol# <input type="radio"/> TCP Any Port# <input type="radio"/> UDP Any Port#																										
Current List	<table border="1"> <thead> <tr> <th>IPv4</th> <th>Group</th> <th>Action</th> <th>VID</th> <th>SrcIP/Mask</th> <th>DstIP/Mask</th> <th>L4 Protocol</th> <th>IP Fragment</th> </tr> </thead> <tbody> <tr> <td>non-IPv4</td> <td>Group</td> <td>Action</td> <td>VID</td> <td>Eth Type</td> <td colspan="3"></td> </tr> <tr> <td><input checked="" type="radio"/></td> <td>2</td> <td>permit</td> <td>any</td> <td>any</td> <td colspan="3"></td> </tr> </tbody> </table>			IPv4	Group	Action	VID	SrcIP/Mask	DstIP/Mask	L4 Protocol	IP Fragment	non-IPv4	Group	Action	VID	Eth Type				<input checked="" type="radio"/>	2	permit	any	any			
IPv4	Group	Action	VID	SrcIP/Mask	DstIP/Mask	L4 Protocol	IP Fragment																				
non-IPv4	Group	Action	VID	Eth Type																							
<input checked="" type="radio"/>	2	permit	any	any																							

Add Del

Microsoft Internet Explorer

Delete the selected group?

OK Cancel

Figure 4-47 Access Control List (ACL) Web Page screen

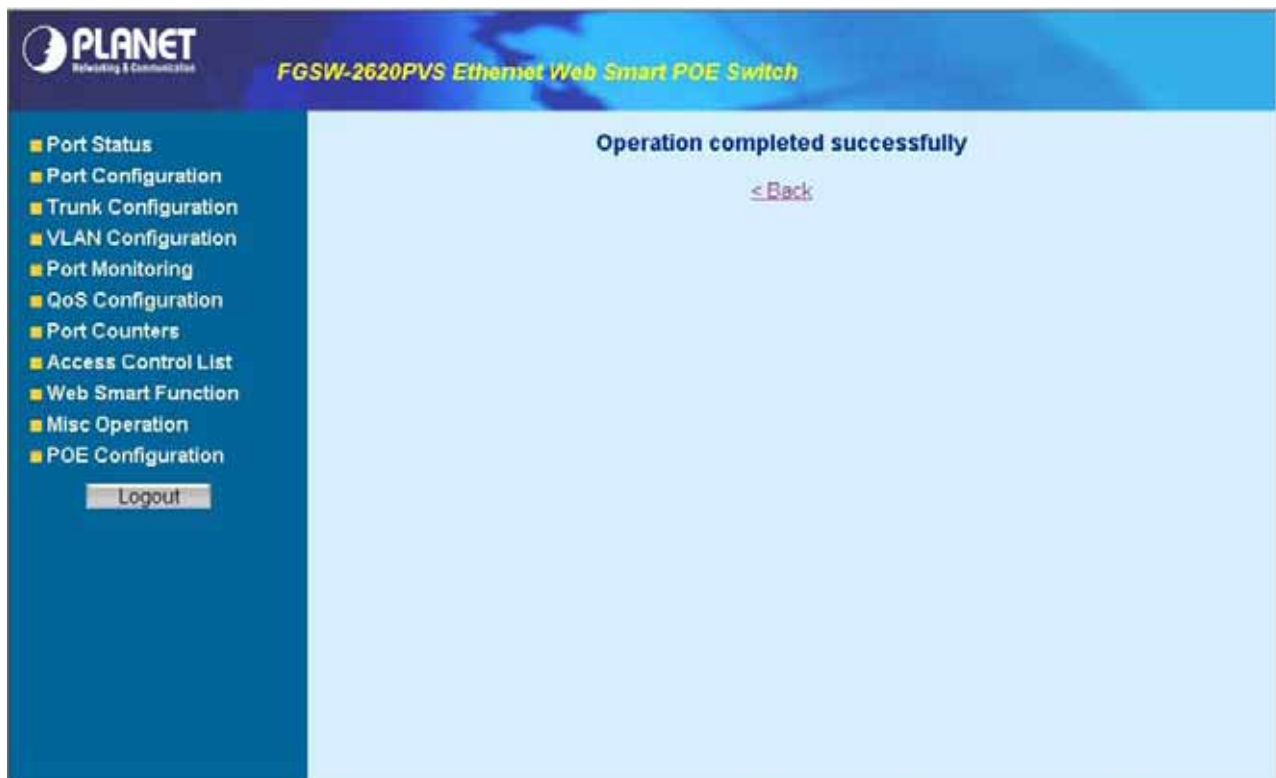


Figure 4-48 Access Control List (ACL) Web Page screen



Figure 4-49 Access Control List (ACL) Web Page screen

4-10 Web Smart Function

This function could provide you to define device indicate connect to each port on Web Smart PoE Switch, the screen in [Figure 4-50](#) appears.



Figure 4-50 Web Smart Function Web Page screen

The available options are shown as below:

1. **PC**
2. **PC+Voip**
3. **Switch**
4. **Router**
5. **AP**
6. **Server**
7. **Printer**
8. **Guest**
9. **Other**

The screen in [Figure 4-51](#) appears and the setup procedure shown as below:

1. Choose a device from options of Select a port function, the screen in [Figure 4-51](#) appears.
2. Check the port that need to marked, the screen in [Figure 4-52](#) appears.
3. After setup completed, press “**Save**” to save current configuration, the screen in [Figure 4-53](#) appears.
4. Please press “**Back**” for return to Web Smart Function screen, the screen in [Figure 4-54](#) appears.



Figure 4-51 Web Smart Function Web Page screen



Figure 4-52 Web Smart Function Web Page screen



Figure 4-53 Web Smart Function Web Page screen

This function also provides **Apply for all ports** option from Select a port function, the setup procedure shown as below:

1. Choose a device and check “**Apply for all ports**” from options of Select a port function, the screen in [Figure 4-54](#) appears.
2. Check any port then all port will be select; the screen in [Figure 4-55](#) appears.
3. After setup completed, press “**Save**” to save current configuration, the screen in [Figure 4-56](#) appears.
4. Please press “**Back**” for return to Web Smart Function screen, the screen in [Figure 4-57](#) appears.



Figure 4-54 Web Smart Function Web Page screen

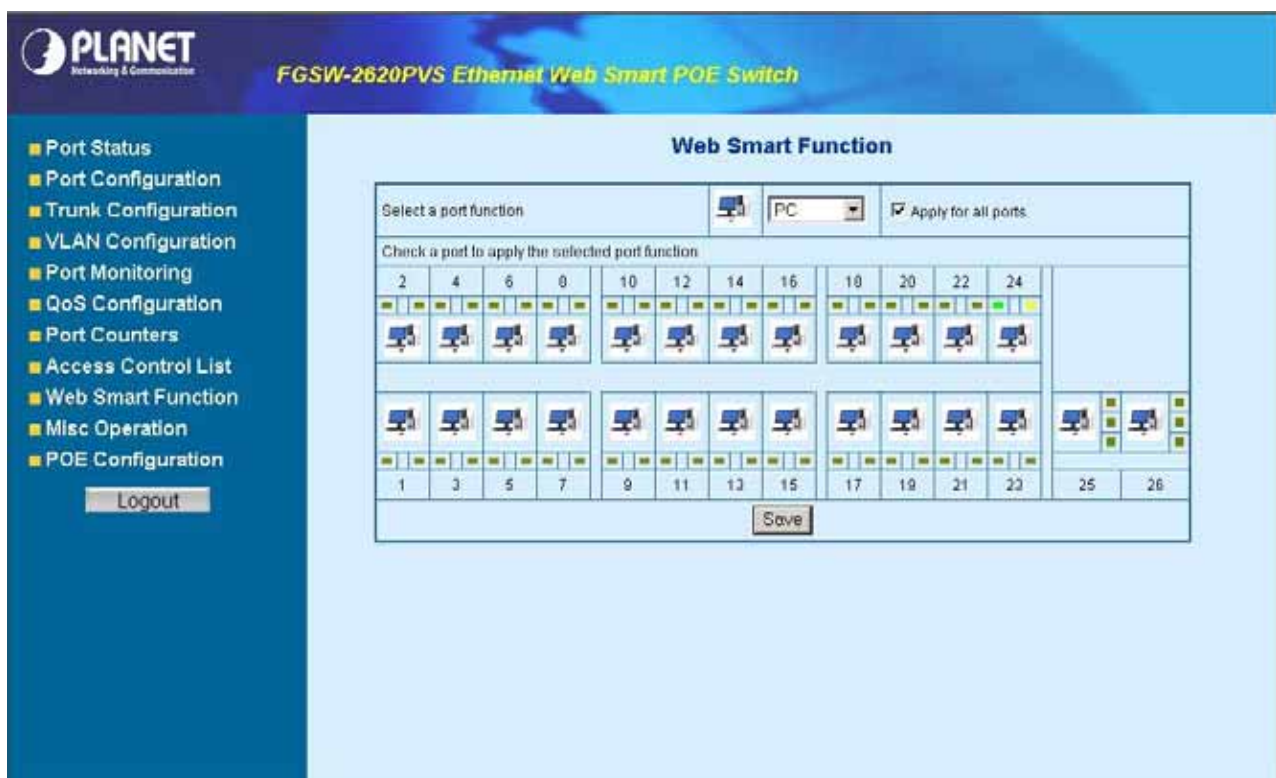


Figure 4-55 Web Smart Function Web Page screen

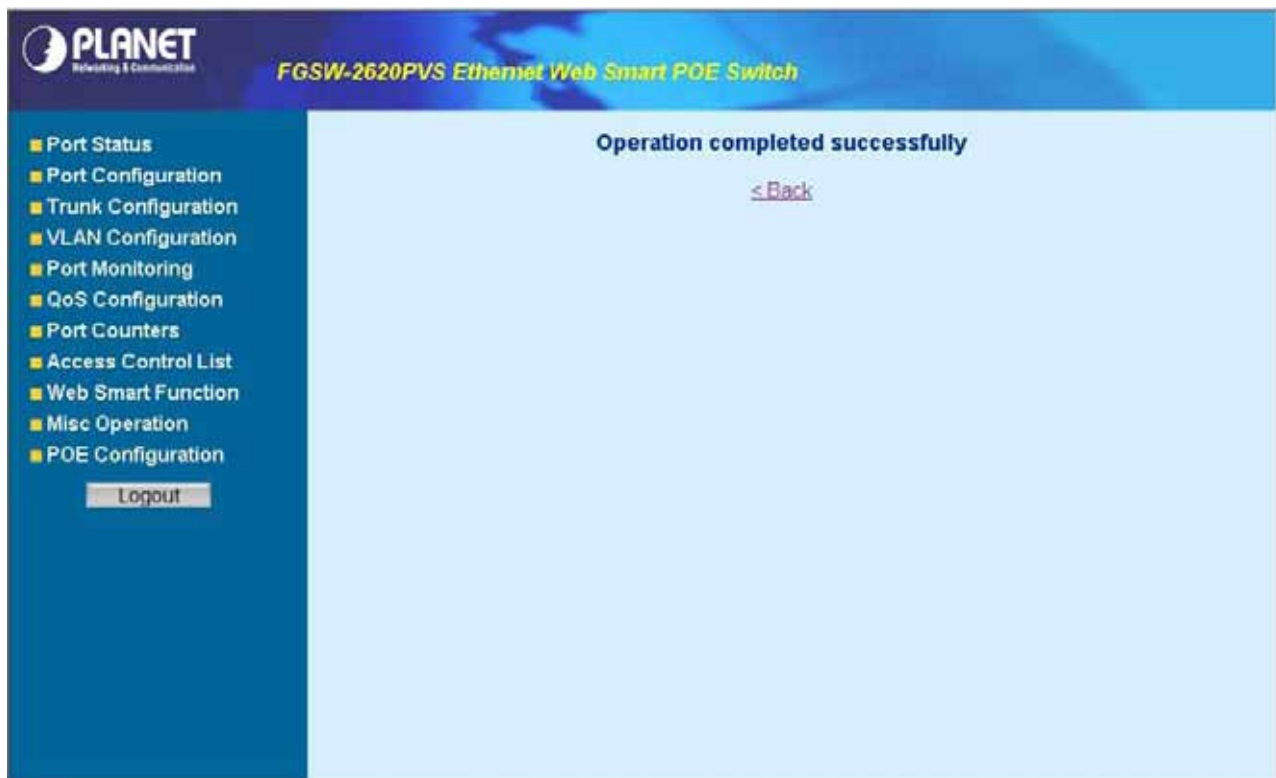


Figure 4-56 Web Smart Function Web Page screen

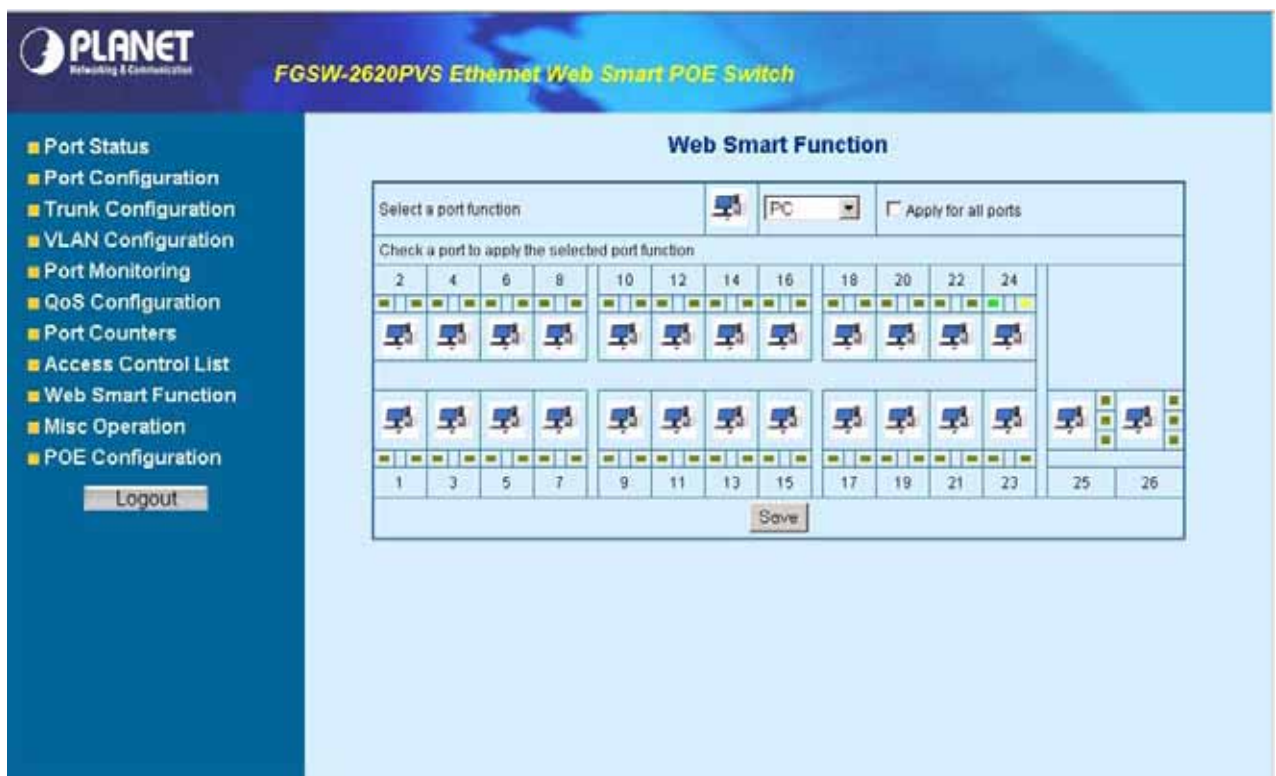


Figure 4-57 Web Smart Function Web Page screen

4-11 Misc Operation

This section provide Misc Operation of Web Smart PoE Switch, the screen in [Figure 4-58](#) appears and table 4-6 describes the Misc Operation objects of Web Smart PoE Switch.



Figure 4-58 Misc Operation Web Page screen

Object	Description
Switch Configuration	Provide Advanced Switch Configuration and available options are Broadcast Storm Filter. Collision Retry Forever. MAC Table Auto-Aging. MAC Table Hashing. Web Auto Logout Time. Please refer to section 4.11.1 for detail description.
TFTP Firmware Up-date	Provide firmware upgrade on Web Smart PoE Switch; please refer to section 4.11.2 for detail description.
Password Setting	Provide password setting on Web Smart PoE Switch; please refer to section 4.11.3 for detail description.
IP Configuration	Provide IP address configuration on Web Smart PoE Switch; please refer to section 4.11.4 for detail description.
Factory Default	Provide Factory Default function on Web Smart PoE Switch; please refer to section 4.11.5 for detail description.
Reboot System	Provide Reboot function on Web Smart PoE Switch; please refer to section 4.11.6 for detail description.
System Information	Display System Information on Web Smart PoE Switch; please refer to section 4.11.7 for detail description.

Table 4-6 Descriptions of the Misc Operation screen Objects

4.11.1 Switch Configuration

Choose Switch Configuration from Misc Operation of Web Smart PoE Switch(please see the [Figure 4-58](#)), the screen in [Figure 4-59](#) appears and table 4-7 describes the Switch Configuration objects from Misc Operation of Web Smart PoE Switch.

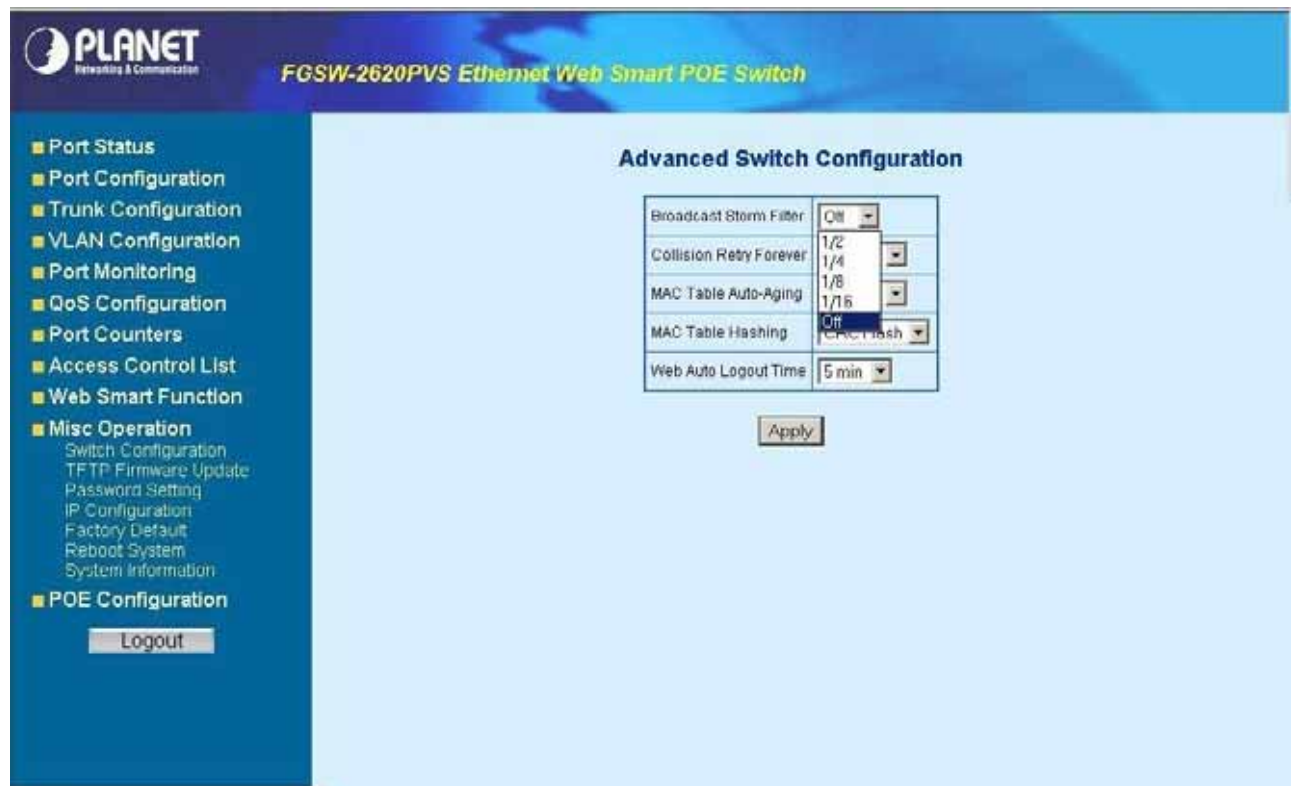


Figure 4-59 Switch Configuration Web Page screen

Object	Description
Broadcast Storm Filter	Provide Broadcast storm filter function and available options are Off. 1/2. MAC 1/4. 1/8.1/16. Default mode is Off ; the screen in Figure 4-59 appears.
Collision Retry Forever	Provide Collision Retry Forever function " Disable " or " Enable " on Web Smart PoE Switch; If this function is disabled, when a packet meet a collision, the Web Smart PoE Switch will retry 6 times before discard the packets. Otherwise, the Web Smart PoE Switch will retry until the packet is successfully sent. Default mode is Enable and the screen in Figure 4-60 appears.
MAC Table Auto-Aging	Provide MAC address table aging time setting on Web Smart PoE Switch; available options are Disable. 150 sec. 300 sec. 600 sec. Default mode is 300 sec and the screen in Figure 4-61 appears.
MAC Table Hashing	Provide MAC address table Hashing setting on Web Smart PoE Switch; available options are CRC Hash and Direct Map. Default mode is CRC Hash and the screen in Figure 4-62 appears.
Web Auto Logout Time	Provide Web auto logout time setting on Web Smart PoE Switch; available options are 5 min. 10 min. 20 min. Default mode is 5 min and the screen in Figure 4-63 appears.
Apply button	Press this button for save current Switch configuration on Web Smart PoE Switch.

Table 4-7 Descriptions of the Switch Configuration screen Objects



Figure 4-60 Switch Configuration Web Page screen

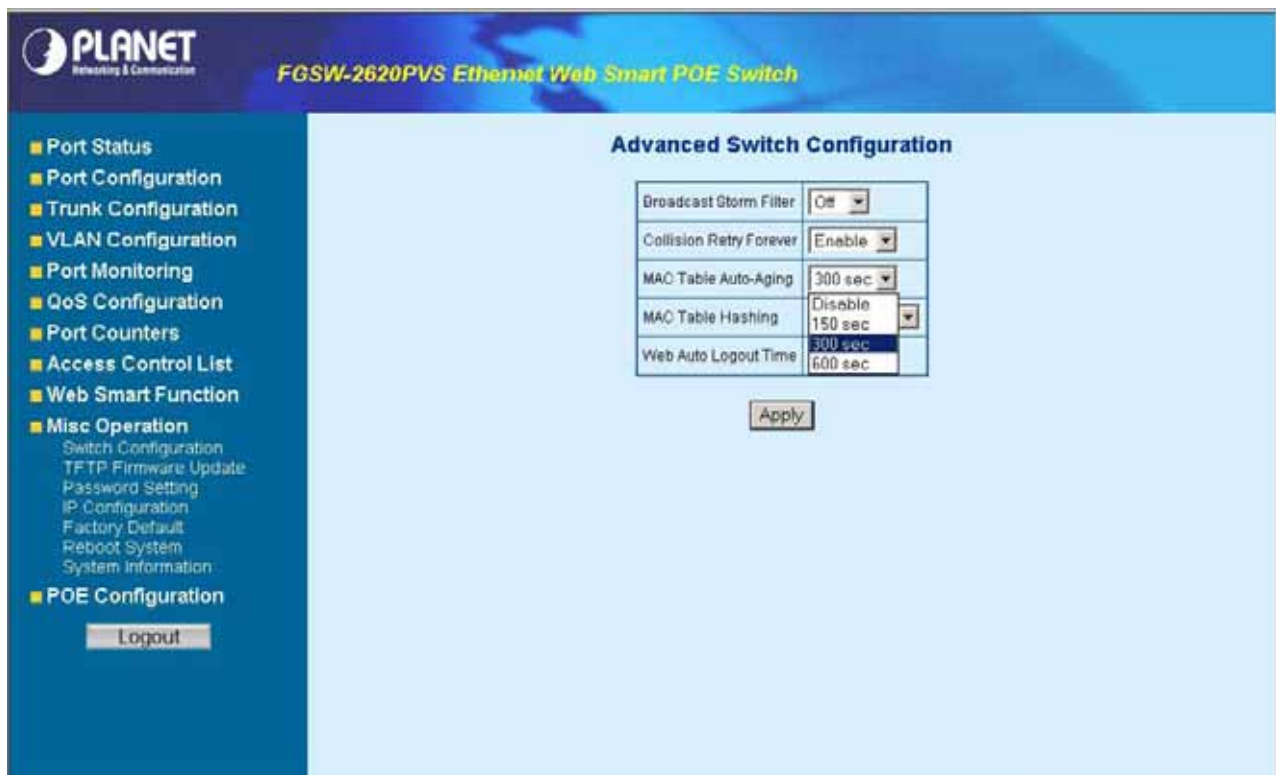


Figure 4-61 Switch Configuration Web Page screen



Figure 4-62 Switch Configuration Web Page screen



Figure 4-63 Switch Configuration Web Page screen

4.11.2 TFTP Firmware Upgrade

This section provides Firmware upgrade through TFTP method on Web Smart PoE Switch, the screen in [Figure 4-64](#) appears.

PLANET
Networking & Communication

FGSW-2620PVS Ethernet Web Smart PoE Switch

- Port Status
- Port Configuration
- Trunk Configuration
- VLAN Configuration
- Port Monitoring
- QoS Configuration
- Port Counters
- Access Control List
- Web Smart Function
- Misc Operation
 - Switch Configuration
 - TFTP Firmware Update
 - Password Setting
 - IP Configuration
 - Factory Default
 - Reboot System
 - System Information
- POE Configuration

Logout

TFTP Firmware Update

TFTP Server IP	192.168.0.99
Filename	FGSW-2620PVS_V1.0.BIN

Apply

Figure 4-64 TFTP Firmware Update Web Page screen

4.11.3 Password Setting

This section provides password setting of Web Smart PoE Switch, the screen in Figure 4-65 appears and table 4-8 describes the Password Setting objects on Web Smart PoE Switch.

The screenshot shows the 'Password Setting' web page for a Planet FGSW-2620PVS Ethernet Web Smart PoE Switch. The interface includes a sidebar menu on the left with various configuration options. The main content area is titled 'Password Setting' and contains a form with the following fields: 'Password Protection' (set to 'Enable'), 'User Name' (set to 'admin'), 'New Password', and 'Password Again'. An 'Apply' button is located below the form.

Figure 4-65 Password Setting Web Page screen

Object	Description
Password Protection	Provide Password protection function "Disable" or "Enable" on Web Smart PoE Switch; Default mode is Enable .
User Name	Provide to modify password on Web Smart PoE Switch and maximum up to six characters . Default User Name is admin .
New Password	Provide to modify and input a new password on Web Smart PoE Switch; maximum up to six characters . Default password is admin .
Password Again	Provide to input again new password for confirm on Web Smart PoE Switch; maximum up to six characters . Default password is admin .
Apply button	Press this button for save current Password Setting on Web Smart PoE Switch.

Table 4-8 Descriptions of the Password Setting screen Objects

Notice:

Once disable the password protection then user name and password modify is not allow to use.

4.11.4 IP Configuration

This section provides IP Configuration on Web Smart PoE Switch; the screen in Figure 4-66 appears and tables 4-9 describes the IP Configuration objects of Web Smart PoE Switch .

PLANET
Networking & Communication

FGSW-2620PVS Ethernet Web Smart POE Switch

■ Port Status
■ Port Configuration
■ Trunk Configuration
■ VLAN Configuration
■ Port Monitoring
■ QoS Configuration
■ Port Counters
■ Access Control List
■ Web Smart Function
■ Misc Operation
 Switch Configuration
 TFTP Firmware Update
 Password Setting
 IP Configuration
 Factory Default
 Reboot System
 System Information
■ POE Configuration

IP Configuration

MAC Address	00:40:63:80:00:00
IP Address	192.168.0.100
Subnet Mask	255.255.255.0
Default Gateway	192.168.0.254

Apply

Figure 4-66 IP Configuration Web Page screen

Object	Description
MAC Address	Display MAC address on Web Smart PoE Switch.
IP Address	Provide to modify IP Address on Web Smart PoE Switch. Default IP address is 192.168.0.100 .
Subnet Mask	Provide to modify Subnet Mask on Web Smart PoE Switch. Default Subnet Mask is 255.255.255.0 .
Default Gateway	Provide to modify Default Gateway on Web Smart PoE Switch. Default Gateway is 192.168.0.254 .
Apply button	Press this button for save current IP Configuration on Web Smart PoE Switch. Once press the Apply button then the pop window with “ IP changed. Please Click OK to Re-login ” appears. Press “ OK ” to re-login Web Smart PoE Switch with new IP address.

Table 4-9 Descriptions of the IP Configuration screen Objects

4.11.5 Factory Default

This section provides Factory Default function on Web Smart PoE Switch, after choose this function and the following screen appears in Figure 4-67. Please press “OK” button to take effect and the switch will reset to factory default mode and ask you to waiting rebooting around 10 sec, press “OK” button to re-login the Web Smart PoE Switch. The screen in Figure 4-68 & 4-69 & 4-70 appears.



Figure 4-67 Factory Default Web Page screen



Figure 4-68 Factory Default Web Page screen



Figure 4-69 Factory Default Web Page screen



Figure 4-70 Factory Default Web Page screen

4.11.6 Reboot System

This section provides Reboot function on Web Smart PoE Switch, after choose this function and the following screen appears in Figure 4-71. Please press “OK” button to take effect and the switch will reboot and ask you to waiting rebooting around 10 sec, press “OK” button to re-login the Web Smart PoE Switch. The screen in Figure 4-72 & 4-73 & 4-74 appears.



Figure 4-71 Reboot Web Page screen



Figure 4-72 Reboot Web Page screen



Figure 4-73 Reboot Web Page screen

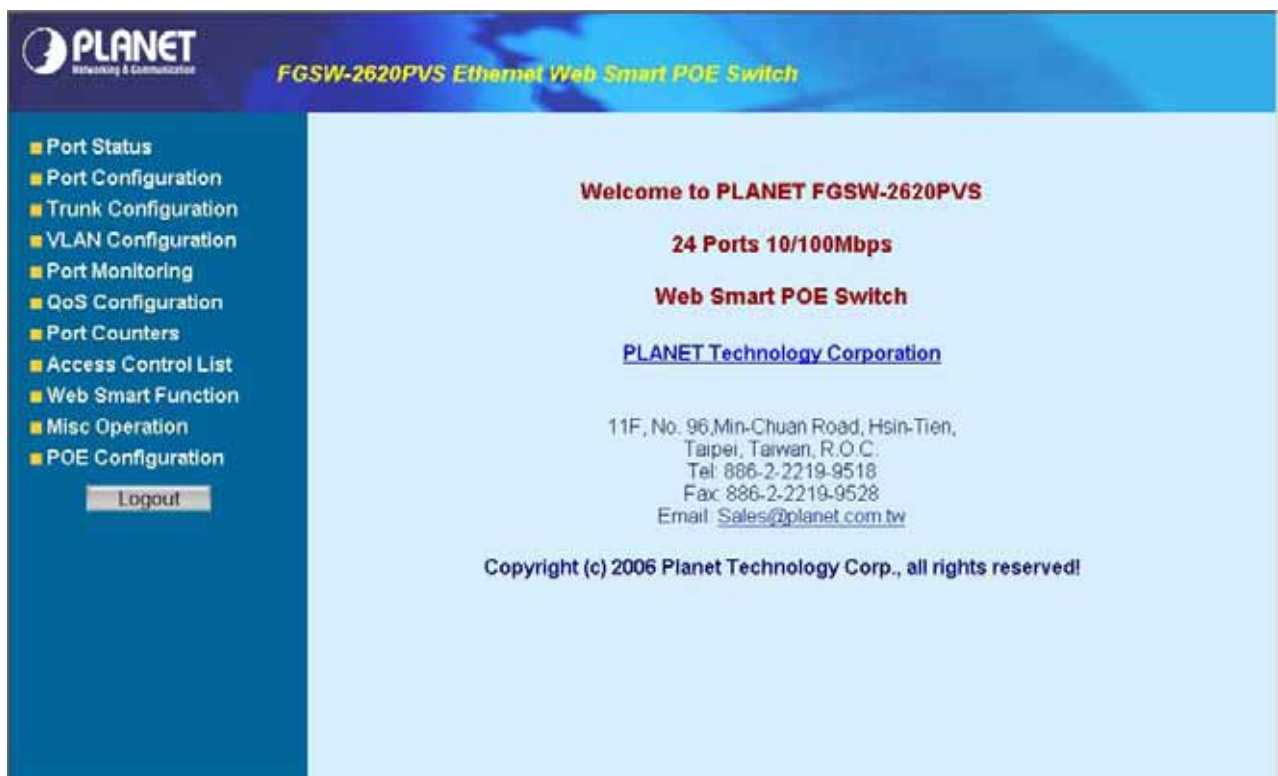


Figure 4-74 Reboot Web Page screen

4.11.7 System Information

This section display system information on Web Smart PoE Switch, after choose this function and the following screen appears in [Figure 4-75](#).

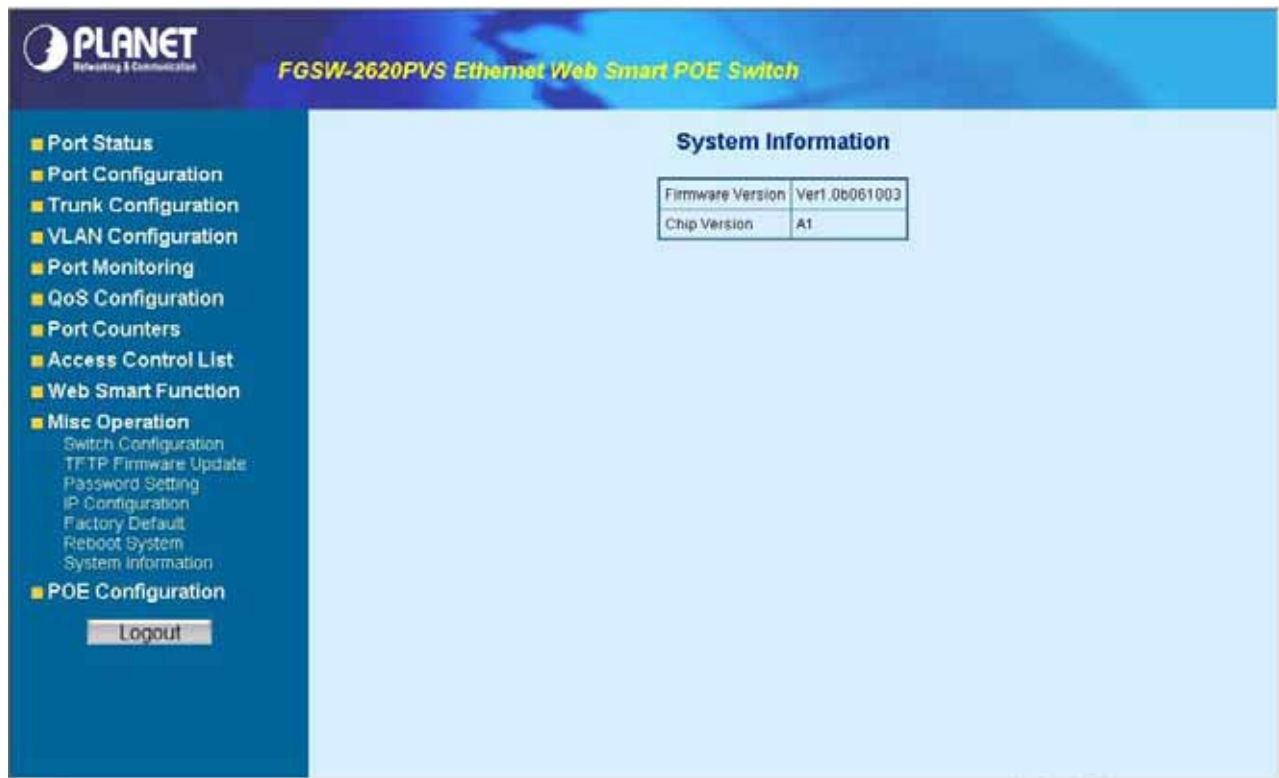


Figure 4-75 System Information Web Page screen

4-12 PoE Configuration

This section provides PoE Configuration of Web Smart PoE Switch, the screen in [Figure 4-76](#) appears and table 4-10 describes the PoE Configuration objects of Web Smart PoE Switch.



Figure 4-76 PoE Configuration Web Page screen

Object	Description
POE Ports Config	This function provide per POE ports configuration. Please refer to section 4.12.1 for detail description.
POE Ports Status	This function allows viewing per PoE port status. Please refer to section 4.12.2 for detail description.

Table 4-10 Descriptions of the POE Configuration screen Objects

4.12.1 POE Ports Config

This section provide "Disable" or "Enable" and 0-11 priority assign on per PoE port of Web Smart PoE Switch; the screen in Figure 4-77 & 4-78 appears. Table 4-11 describes the POE Ports Configuration objects from PoE Configuration of Web Smart PoE Switch.

The screenshot shows the 'POE Ports Config' web page for a PLANET FG5W-2620PVS Ethernet Web Smart PoE Switch. The left sidebar contains a navigation menu with options: Port Status, Port Configuration, Trunk Configuration, VLAN Configuration, Port Monitoring, QoS Configuration, Port Counters, Access Control List, Web Smart Function, Misc Operation, and POE Configuration (with sub-items POE Ports Config and POE Ports Status). A 'Logout' button is at the bottom of the sidebar. The main content area is titled 'POE Ports Config' and displays a table with 15 rows, each representing a port. Each row has three columns: 'Port', 'Enable', and 'Priority'. All 'Enable' dropdowns are set to 'Enable' and all 'Priority' dropdowns are set to '0'.

Port	Enable	Priority
1	Enable	0
2	Enable	0
3	Enable	0
4	Enable	0
5	Enable	0
6	Enable	0
7	Enable	0
8	Enable	0
9	Enable	0
10	Enable	0
11	Enable	0
12	Enable	0
13	Enable	0
14	Enable	0
15	Enable	0

Figure 4-77 POE Ports Configuration Web Page screen

This screenshot shows the same 'POE Ports Config' web page, but with the table displaying ports 10 through 24. The interface elements, including the sidebar and table headers, are identical to Figure 4-77. All 'Enable' dropdowns are set to 'Enable' and all 'Priority' dropdowns are set to '0'. An 'Apply' button is visible at the bottom right of the table area.

Port	Enable	Priority
10	Enable	0
11	Enable	0
12	Enable	0
13	Enable	0
14	Enable	0
15	Enable	0
16	Enable	0
17	Enable	0
18	Enable	0
19	Enable	0
20	Enable	0
21	Enable	0
22	Enable	0
23	Enable	0
24	Enable	0

Figure 4-78 POE Ports Configuration Web Page screen

Object	Description
Port	Indicate port 1 to port 24 on FGSW-2620PVS and port 1 to port 12 on FGSW-2612PVS.
Enable	Provide "Disable" or "Enable" per POE port. Default mode is Enable .
Priority	Provide priority assign on each PoE port and the available options are 0-11 . Default mode is 0 .
Apply button	Press this button for save current POE Ports configuration on Web Smart PoE Switch.

Table 4-11 Descriptions of the POE Ports Configuration screen Objects

4.12.2 POE Port Status

This function allows viewing per PoE port status, such as "Disable" or "Enable", power in **mW** and current in **mA** unit, the screen in [Figure 4-79](#) appears. Table 4-12 describes the POE Ports Status objects from PoE Configuration of Web Smart PoE Switch.

Port	Enable	Power[mW]	Current [mA]	Port	Enable	Power[mW]	Current [mA]
1	Disable	0	0	2	Disable	0	0
3	Disable	0	0	4	Disable	0	0
5	Disable	0	0	6	Disable	0	0
7	Disable	0	0	8	Disable	0	0
9	Disable	0	0	10	Disable	0	0
11	Disable	0	0	12	Disable	0	0
13	Disable	0	0	14	Disable	0	0
15	Disable	0	0	16	Disable	0	0
17	Disable	0	0	18	Disable	0	0
19	Disable	0	0	20	Disable	0	0
21	Disable	0	0	22	Disable	0	0
23	Disable	0	0	24	Disable	0	0

Figure 4-79 POE Port Status Web Page screen

Object	Description
Port	Indicate port 1 to port 24 on FGSW-2620PVS and port 1 to port 12 on FGSW-2612PVS.
Enable	Display "Disable" or "Enable" status on each POE port.
Power[mW]	Display current power value that receives on each POE port.
Current[mA]	Display current power current value that receives on each POE port.
Refresh button	Press this button for refresh per POE Ports Status on Web Smart PoE Switch.

Table 4-12 Descriptions of the POE Ports Status screen Objects

4-13 Logout

This section provide web logout function on Web Smart PoE Switch, after choose this function and the following screen appears in Figure 4-80. Please press “OK” button to take effect and Logout pop window appears, press “OK” button to re-login the Web Smart PoE Switch. The screen in Figure 4-81 & 4-82 & 4-83 appears.



Figure 4-80 Logout Web Page screen



Figure 4-81 Logout Web Page screen



Figure 4-82 Logout Web Page screen

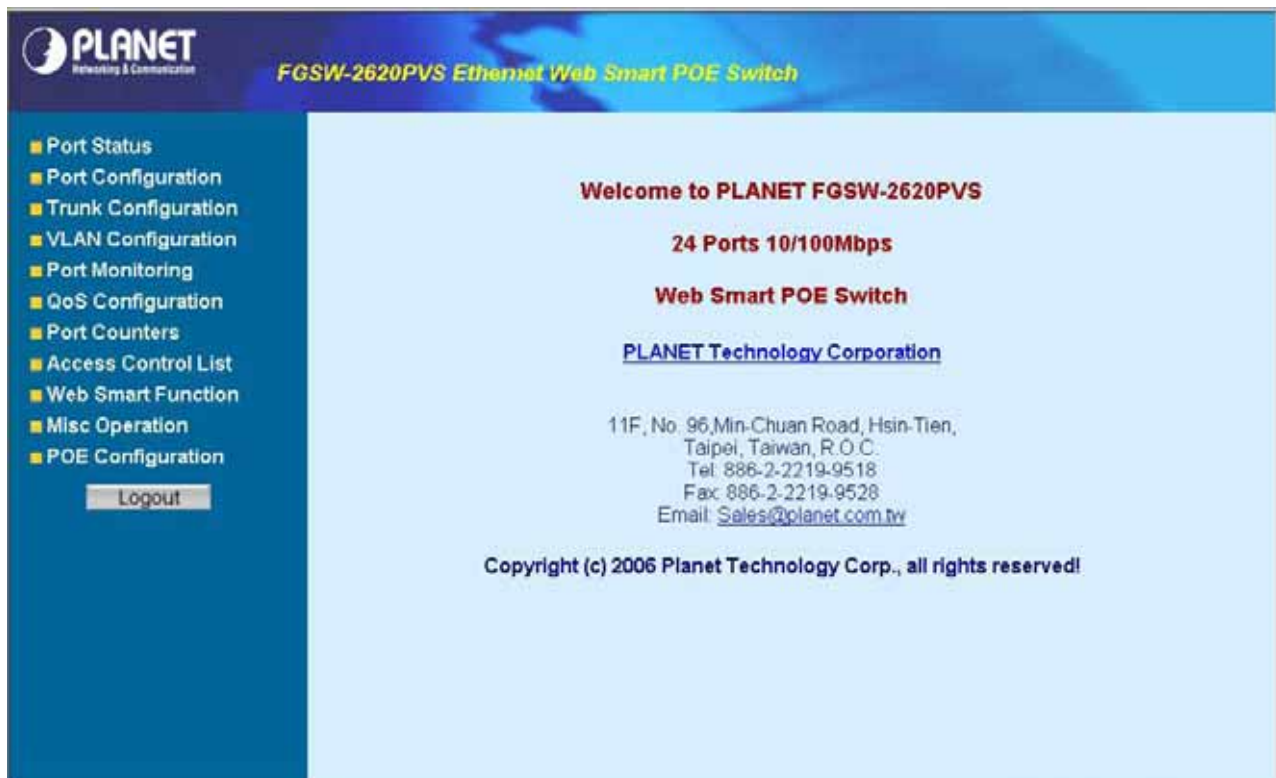


Figure 4-83 Logout Web Page screen

5. SWITCH OPERATION

5.1 Address Table

The Switch is implemented with an address table. This address table composed of many entries. Each entry is used to store the address information of some node in network, including MAC address, port no, etc. This information comes from the learning process of Ethernet Switch.

5.2 Learning

When one packet comes in from any port. The Switch will record the source address, port no. And the other related information in address table. This information will be used to decide either forwarding or filtering for future packets.

5.3 Forwarding & Filtering

When one packet comes from some port of the Ethernet Switching, it will also check the destination address besides the source address learning. The Ethernet Switching will lookup the address-table for the destination address. If not found, this packet will be forwarded to all the other ports except the port which this packet comes in. And these ports will transmit this packet to the network it connected. If found, and the destination address is located at different port from this packet comes in, the Ethernet Switching will forward this packet to the port where this destination address is located according to the information from address table. But, if the destination address is located at the same port with this packet comes in, then this packet will be filtered. Thereby increasing the network throughput and availability.

5.4 Store-and-Forward

Store-and-Forward is one type of packet-forwarding techniques. A Store-and Forward Ethernet Switching stores the incoming frame in an internal buffer, do the complete error checking before transmission. Therefore, no error packets occurrence, it is the best choice when a network needs efficiency and stability.

The Ethernet Switch scans the destination address from the packet-header, searches the routing table provided for the incoming port and forwards the packet, only if required. The fast forwarding makes the switch attractive for connecting servers directly to the network, thereby increasing throughput and availability. However, the switch is most commonly used to segment existing hubs, which nearly always improves overall performance. An Ethernet Switching can be easily configured in any Ethernet network environment to significantly boost bandwidth using conventional cabling and adapters.

Due to the learning function of the Ethernet switching, the source address and corresponding port number of each incoming and outgoing packet are stored in a routing table. This information is subsequently used to filter packets whose destination address is on the same segment as the source address. This confines network traffic to its respective domain, reducing the overall load on the network.

The Switch performs "Store and forward" therefore, no error packets occur. More reliably, it reduces the re-transmission rate. No packet loss will occur.

5.5 Auto-Negotiation

The STP ports on the Switch have built-in "Auto-negotiation". This technology automatically sets the best possible bandwidth when a connection is established with another network device (usually at Power On or Reset). This is done by detect the modes and speeds at the second of both device is connected and capable of, both 10Base-T and 100Base-TX devices can connect with the port in either Half- or Full-Duplex mode. 1000Base-T can be only connected in Full-duplex mode.

6. TROUBLESHOOTING

This chapter contains information to help you solve problems. If the Switch is not functioning properly, make sure the Ethernet Switch was set up according to instructions in this manual.

The Link LED is not lit

Solution:

Check the cable connection and remove duplex mode of the Switch.

Some stations cannot talk to other stations located on the other port

Solution:

Please check the VLAN, port trunking function that may introduce this kind of problem.

Performance is bad

Solution:

Check the full duplex status of the Ethernet Switch. If the Ethernet Switch is set to full duplex and the partner is set to half duplex, then the performance will be poor.

100Base-TX port link LED is lit, but the traffic is irregular

Solution:

Check that the attached device is not set to dedicate full duplex. Some devices use a physical or software switch to change duplex modes. Auto-negotiation may not recognize this type of full-duplex setting.

Why the Switch doesn't connect to the network

Solution:

Check the LNK/ACT LED on the switch Try another port on the Switch Make sure the cable is installed properly Make sure the cable is the right type Turn off the power. After a while, turn on power again.

Why I connect my PoE device to FGSW-2620PVS / 2612PVS and it cannot power on?

Solution:

1. Please check the cable type of the connection from FGSW-2620PVS (port 1 to port 24) or FGSW-2612PVS (port 1 to port 12) to the other end. The cable should be an 8-wire UTP, Category 5 or above, EIA568 cable within 100 meters. A cable with only 4-wire, short loop or over 100 meters, all will affect the power supply.
2. Please check and assure the device that fully complied with IEEE 802.3af standard.

How to deal forgotten password situation of FGSW-2620PVS/FGSW-2612PVS

Solution:

Please press Reset button at front panel for 5 seconds then the Web Smart PoE Switch will reset to factory default mode(username and password: admin)

APPENDIX A NETWORKING CONNECTION

A.1 Switch's RJ-45 Pin Assignments

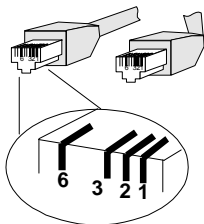
1000Mbps, 1000Base T

Contact	MDI	MDI-X
1	BI_DA+	BI_DB+
2	BI_DA-	BI_DB-
3	BI_DB+	BI_DA+
4	BI_DC+	BI_DD+
5	BI_DC-	BI_DD-
6	BI_DB-	BI_DA-
7	BI_DD+	BI_DC+
8	BI_DD-	BI_DC-

10/100Mbps, 10/100Base-TX

RJ-45 Connector pin assignment		
Contact	MDI Media Dependant Interface	MDI-X Media Dependant Interface -Cross
1	Tx + (transmit)	Rx + (receive)
2	Tx - (transmit)	Rx - (receive)
3	Rx + (receive)	Tx + (transmit)
4, 5	Not used	
6	Rx - (receive)	Tx - (transmit)
7, 8	Not used	

A.2 RJ-45 cable pin assignment



The standard RJ-45 receptacle/connector

There are 8 wires on a standard UTP/STP cable and each wire is color-coded. The following shows the pin allocation and color of straight cable and crossover cable connection:



Figure A-1: Straight-Through and Crossover Cable

Please make sure your connected cables are with same pin assignment and color as above picture before deploying the cables into your network.